



R-5 North Ops Lake Plans *Version 5, 8 October 2017*

Updates: Added Lake Britton, Black Butte Reservoir, Indian Valley Reservoir, and Clear Lake (Lake County).



This document is a compilation of lake plans for Water Scooper use in Northern California. Any corrections or additions should be forwarded to:

Jason Robinson
CL-415 Chief Pilot
Aero-Flite Inc.
805-704-2789

Kevin Merrill
USFS CL-415 AWSA COR
kmerrill@fs.fed.us
605-222-3883

A list of target lakes is included for water sources needing coordination. The Chief Pilot or assigned Water Scooper manager may assist local units with creating lake plans if desired. This document will be updated periodically as target lake plans are completed.

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North Ops Target Lakes (North to South) * Coordination not complete

Lake Earl - Unavailable due to wildlife concerns.

Lake Hastina - Lake plan complete, awaiting lake authority approval.

Lake Iskiou - Iskiou Mount concerned about recreation impact, helicopters only

hiske town - In progress.

agle Lake -Lake plan complete, awaiting ownership determination.

Independence

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TOC

SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Drews Reservoir – Lake County, OR last updated by J Robinson August 1 2017				
Latitude:	42° 08' N	Longitude:	120° 38' W	Elevation:	4930'

Operational Control:	
Owner:	Lake County
Contact:	Brian Mayer– Water master
Phone:	541-947-6038
Phone:	
Other:	brian.m.mayer@state.or.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES

Law Enforcement Jurisdiction:	
Name:	Lake County Sheriff - Dispatch
Phone:	541-947-2504
Other:	
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

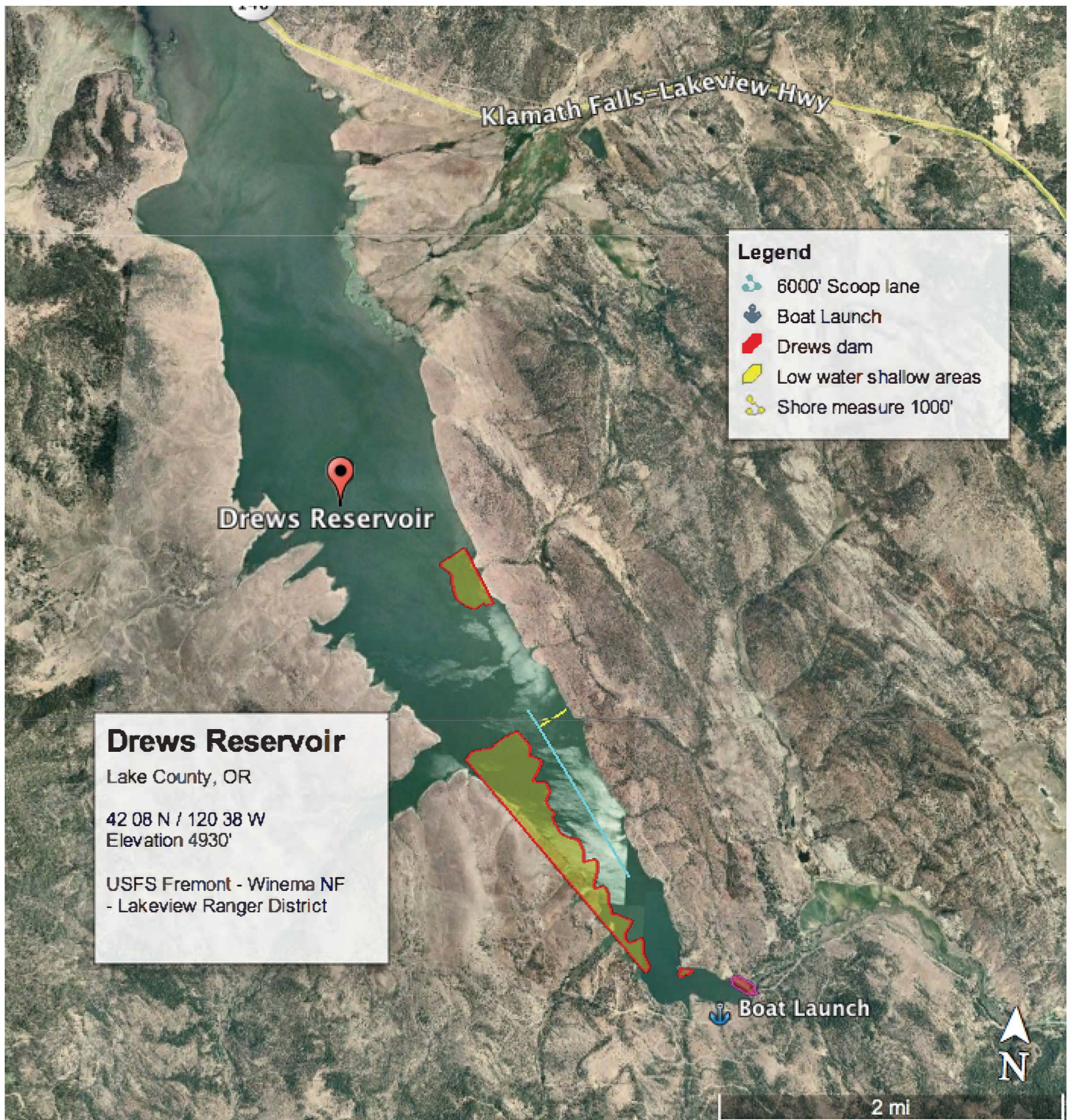
Fire Administration Information:	
Forest/Bureau/State:	Lakeview Interagency Fire Center
Contact:	541-947-6315
Forest/Bureau/State:	Fremont-Winema NF – Lakeview RD
Contact:	(541) 947-3334

Known Hazards:	
Structure(s):	Dam SE end,
Water:	Water level good per 5/18/17 aerial survey
Recreation:	High recreation weekends, holidays.
Other:	

Known Invasive Species: none per USGS AIS survey 8/1/17

Environmental Mitigations Needed Pre/Post Scooping:
Tank decontamination procedures conducted as per Amphibious Water Scooper Operations Plan.

Comments:
Southern half of lake towards dam is deeper.





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Clear Lake Reservoir – Clear Lake National Wildlife Refuge				
Latitude*:	41 51.8	Longitude*:	121 10.7	Elevation:	4,480'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Clear Lake National Wildlife Refuge
Name:	FWS
Phone:	530-667-2231
Email:	kenneth_griggs@fws.gov

CONTACT NEEDED PRIOR TO SCOOPING?**YES**

Law Enforcement Jurisdiction:	
Name:	Clear Lake National Wildlife Refuge
Phone:	530-667-2231
Location:	Tulelake, CA
Email:	kenneth_griggs@fws.gov

PERMISSION NEEDED PRIOR TO SCOOPING?**YES**

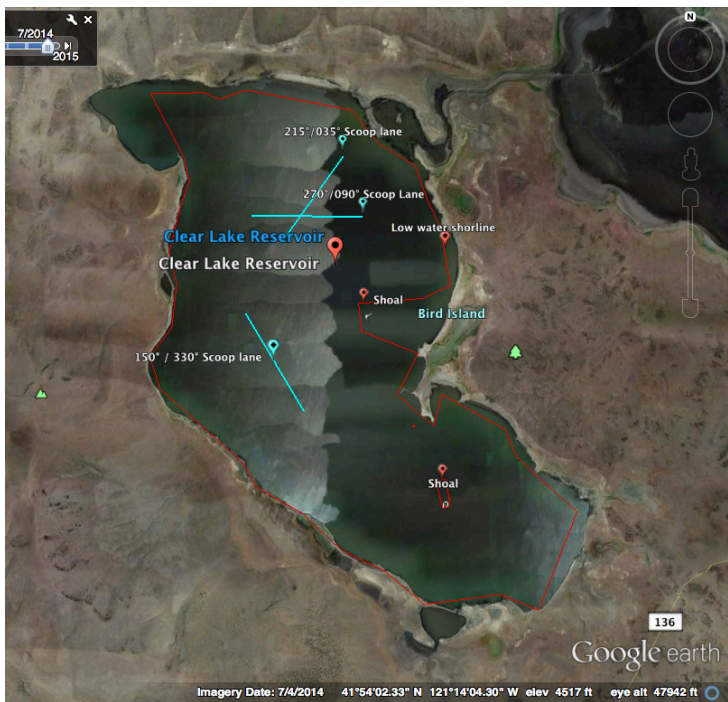
Administration Information:	
Forest/Bureau/State:	BOR
Location:	6600 Washburn Way Klamath Falls OR 97603-9365
Email:	gdriscoll@usbr.gov
Phone:	541-883-6935

Known Hazards:	
Structure(s):	None in the potential flight path
Water:	Depth changes with seasonal evaporation
Recreation:	None- Recreation not allowed
Other:	USGS researchers will be on the lake in August 2017

Known Invasive Species:	None noted in conversation with Refuge staff July 2017 – Cmix, none per USGS AIS Survey.
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Environmental Mitigations Needed Pre/Post Scooping:	As per FWS Refuge Manager – recommend using Northwest area of the lake for scooping. As per BoR there endangered species considerations that must be mitigated, however the mitigations can be post scooping. None other noted in Conversation with Refuge staff and BoR Staff July 2017 - CMix
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Comments: The lake ebbs and flows considerably with water volume. BoR owns the water. Conditional approval





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Copco Lake – Siskiyou County				
Latitude:	41° 58' N	Longitude:	122° 18' W	Elevation:	2625'

Operational Control:	
Owner:	Pacificorp
Contact:	Dam General Foreman – Denny Campbell
Phone:	530-459-2000 Control Room
Phone:	360-225-4410 24hr Dispatch
Other:	Patrol boats available

CONTACT NEEDED PRIOR TO SCOOPING?

YES

Law Enforcement Jurisdiction:	
Name:	Siskiyou County Sheriff - Dispatch
Phone:	530-841-2900
Other:	Have patrol boat
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

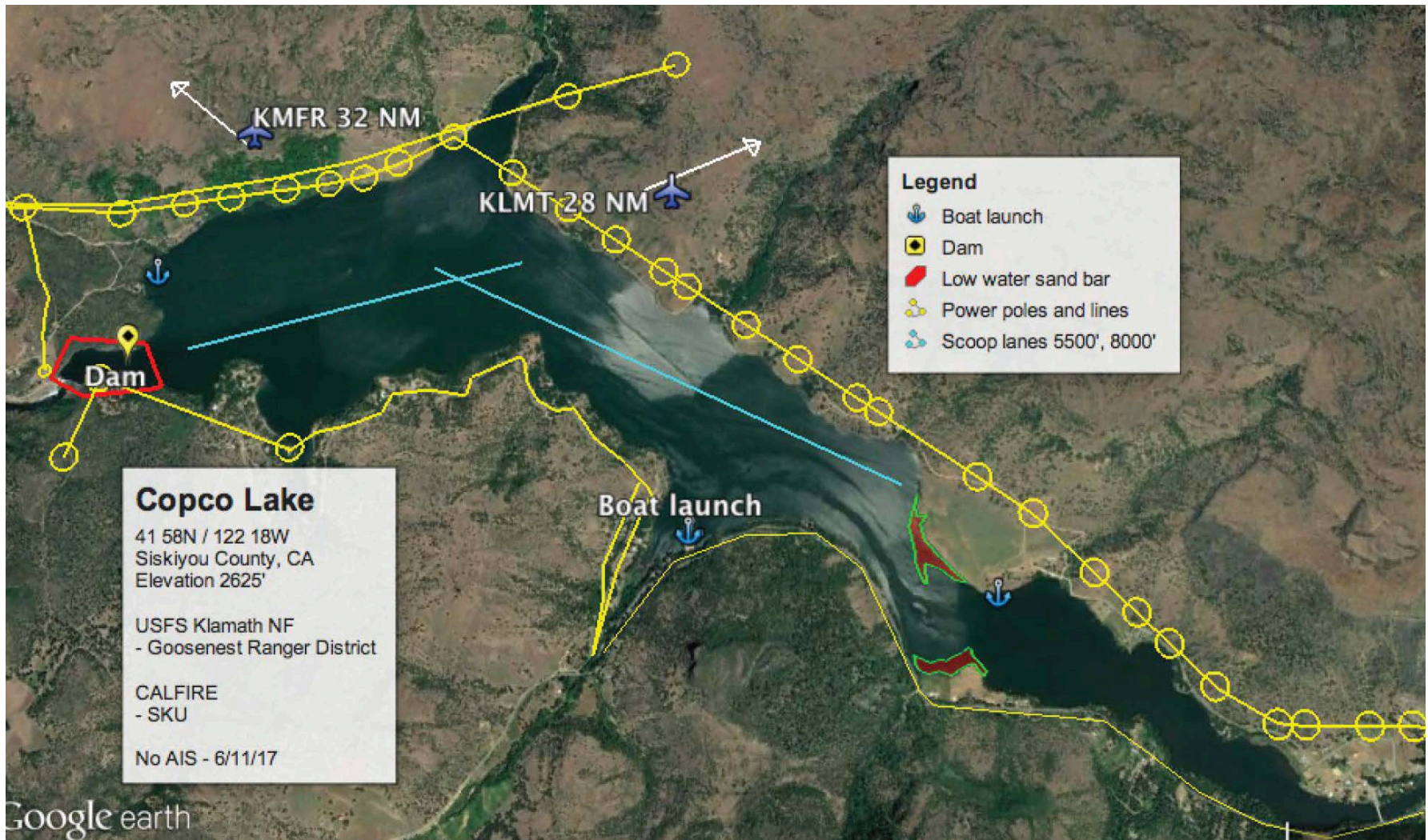
Fire Administration Information:	
Forest/Bureau/State:	Klamath NF – Goosenest Ranger District
Contact:	Laura Allen District Ranger – 530-398-4391
Forest/Bureau/State:	CALFIRE - SKU
Phone:	Unit Chief Phil Anzo 530-842-3616

Known Hazards:	
Structure(s):	Dam west end, Power poles and power lines run along north and south shore and cross northern bay.
Water:	Water level good per 5/18/17 aerial survey
Recreation:	High recreation weekends, holidays. No recreation on 5/18.
Other:	

Known Invasive Species:	none per AIS survey 10/1/16
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Environmental Mitigations Needed Pre/Post Scooping:	
Tank decontamination procedures conducted as per Amphibious Water Scooper Operations Plan.	

Comments:	
Has been used by helicopters for fire suppression with no issues per Pacificorp foreman.	





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Iron Gate Reservoir– Siskiyou County				
Latitude:	41° 47' N	Longitude:	122° 26' W	Elevation:	2335'

Operational Control:	
Owner:	Pacificorp
Contact:	Dam General Foreman – Denny Campbell
Phone:	530-459-2000 Control Room
Phone:	360-225-4410 24hr Dispatch
Other:	Patrol boats available

CONTACT NEEDED PRIOR TO SCOOPING?

YES

Law Enforcement Jurisdiction:	
Name:	Siskiyou County Sheriff - Dispatch
Phone:	530-841-2900
Other:	Have patrol boat
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Fire Administration Information:	
Forest/Bureau/State:	Klamath NF – Goosenest Ranger District
Contact:	Laura Allen District Ranger – 530-398-4391
Forest/Bureau/State:	CALFIRE - SKU
Phone:	Unit Chief Phil Anzo 530-842-3616

Known Hazards:	
Structure(s):	Dam SW end, Power poles and power lines run along north shore and cross Jenny Creek Cove on NE arm and lines cross cove on NW arm.
Water:	Water level good per 5/18/17 aerial survey
Recreation:	High recreation weekends, holidays. No recreation on 5/18.
Other:	

Known Invasive Species:	none per AIS survey 10/1/16
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Environmental Mitigations Needed Pre/Post Scooping:	
Tank decontamination procedures conducted as per Amphibious Water Scooper Operations Plan.	

Comments:	
Has been used by helicopters for fire suppression with no issues per Pacificorp foreman.	





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	West Valley Reservoir – Likely, California				
Latitude*:	41° 11.960 N	Longitude*:	120° 24.010' W	Elevation:	4747' MSL

*If specific portions of water body are to be used, determine lat/long for specific area, if not use center of water body

Operational Control:	
Owner:	South Fork Irrigation District
Name:	Ken McGarva
Phone:	530-640-4093
Email:	ranchlady@dotsky.com

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Contact Mr. McGarva (cellphone)

Law Enforcement Jurisdiction:	
Name:	MODOC COUNTY SHERIFF'S OFFICE Mike Poindexter (Sheriff)
Phone:	530-233-4416
Location:	Alturas, CA
Email:	mpoindexter@modocsheriff.us

PERMISSION NEEDED PRIOR TO SCOOPING?

NO - X

Administration Information:	
Forest/Bureau/State:	USFS/MDF/CA, Lance Noxon, FFMO
Location:	Alturas, CA
Email:	lnoxon@fs.fed.us
Phone:	530-233-8703

Known Hazards:	
Structure(s):	Dam on northwest end, house - southwest shore, boat ramp – western shore
Water:	Choppy with upslope winds in afternoon
Recreation:	Recreational watercraft-all types, boat ramp on western shore of lake
Other:	Gusty winds, rising terrain, density altitude, rocky shoreline stay off shore 300', Northwestern portion of lake is deeper.

Known Invasive Species:	no known invasive species, (California Department of Fish and Wildlife)
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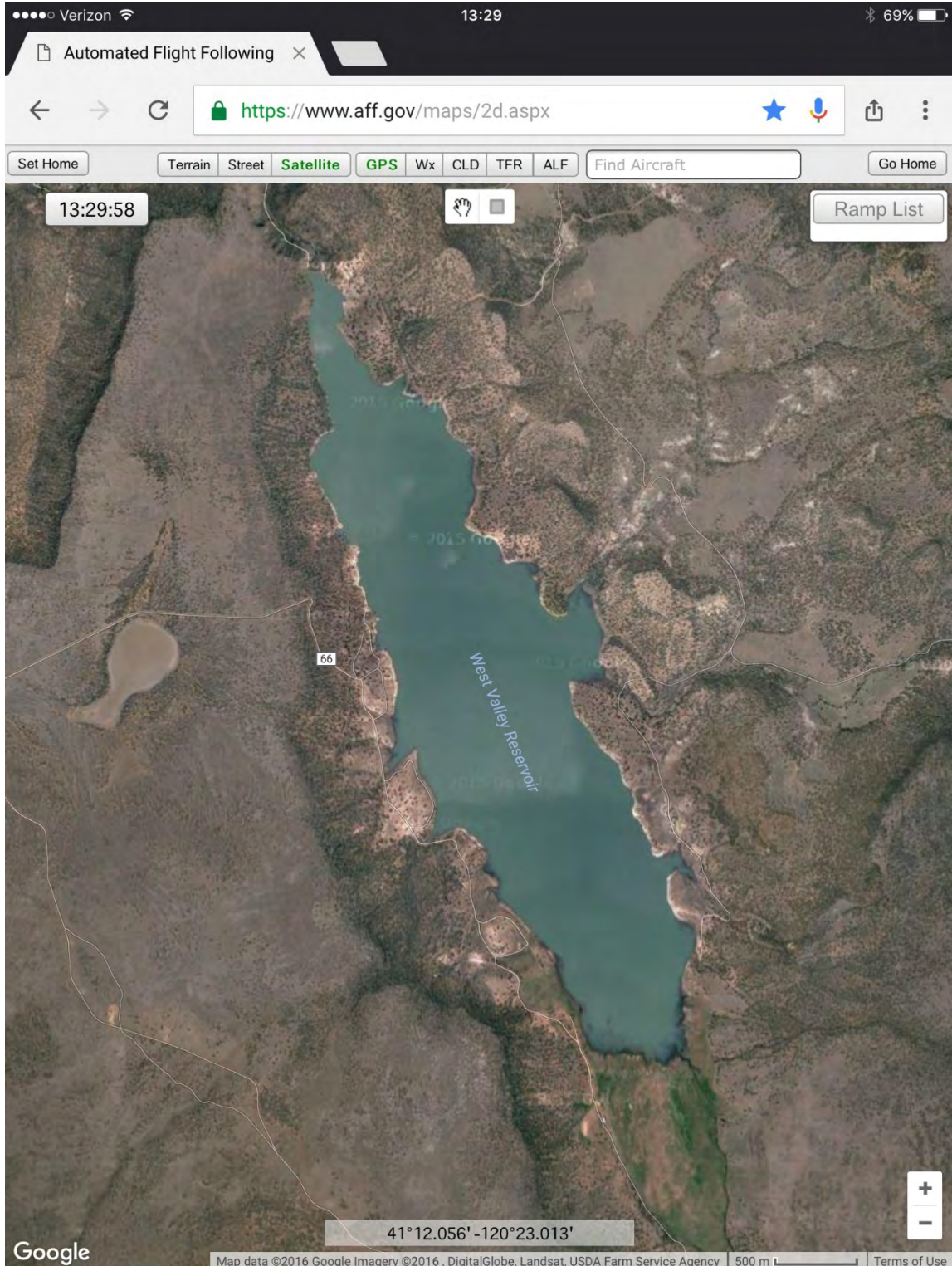
Environmental Mitigations Needed Pre/Post Scooping:	
Ensure aircraft has been sanitized for aquatic invasive species prior to deployment or utilization	

WEST VALLEY RESERVOIR

Lat / Long: 41° 11.960' N / 120° 24.010' W

Lake Elevation: 4747'

NORTH



SOUTH



Scooper Water Source Coordination Worksheet



NAME:	Lake Britton – Shasta County, California last update: 09/28/2017 by: Patrick Goodrich				
Latitude*:	41° 01' N	Longitude*:	121° 38' W	Elevation:	2733'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	PG & E
Name:	Dana Murray, Generation Supervisor (Hydro)
Phone:	C: 530-238-7197/ O:530-335-5642
Email:	DTM8@PGE.com

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Contact Dana Murray @ PG&E, email notice if no contact available.

Law Enforcement Jurisdiction:	
Name:	Shasta county Sheriff (no regular boat patrols on Lake Britton)
Phone:	Marine patrol 530-245-6075
Location:	Lake Shasta
Email:	sheriff@co.shasta.ca.us

PERMISSION NEEDED PRIOR TO SCOOPING?

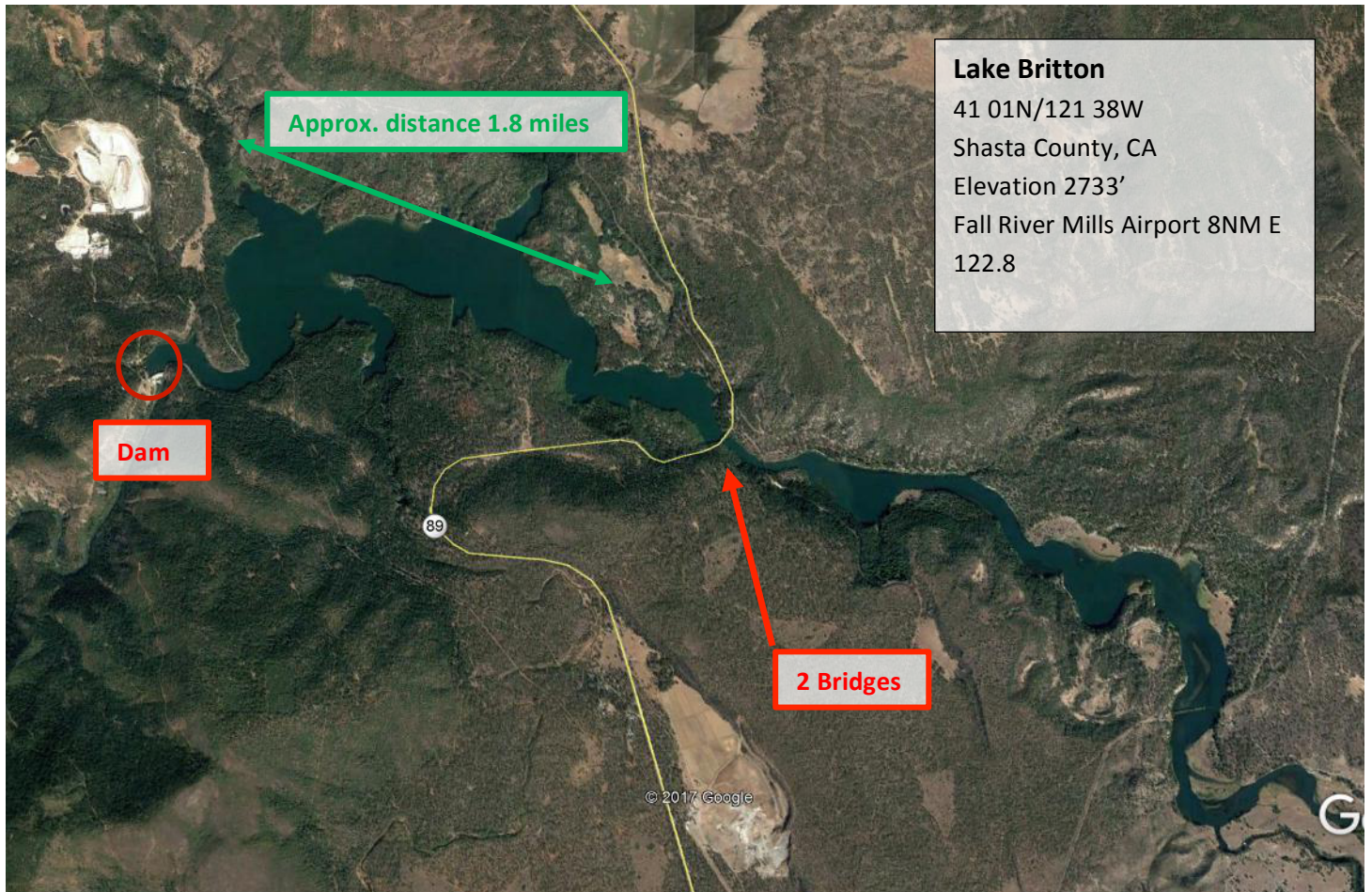
NO

Fire Administration Information:	
Agency:	Shasta Trinity National Forest
Location:	Redding
	Contact dispatch and they will forward info to appropriate admin personal.
Phone:	Dispatch: 530-226-2400

Known Hazards:	
Structure(s):	Two bridges across the lake, in close proximity to each other. Gas pipeline crosses lake/river at the very southern part, 30 feet off the water.
Water:	Water level good per Sept 2017 aerial survey.
Recreation:	Yes
Other:	

Known Invasive Species: Asian Clam, European Ear Snail, Eurasian Water Milfoil per USGS AIS survey completed by Patrick Goodrich 9/28/2017.

Environmental Mitigations Needed Pre/Post Scooping: Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan & AFI Aquatic Invasive Species Mitigation Plan.





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Trinity Lake – Trinity County, CA updated 9/6/2017 by J Robinson, updated Comments section to match previous lake plan.				
Latitude*:	40° 50'	Longitude*:	122° 54'	Elevation:	2370'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Shasta Trinity National Forest
Name:	John Casey – Forest Aviation Officer
Phone:	530-727-7045
Email:	jmcassey@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES

Law Enforcement Jurisdiction:	
Name:	Trinity County Sheriff's Office
Phone:	530-623-2611
Location:	Weaverville, CA
Email:	e911@trinitycounty.org

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

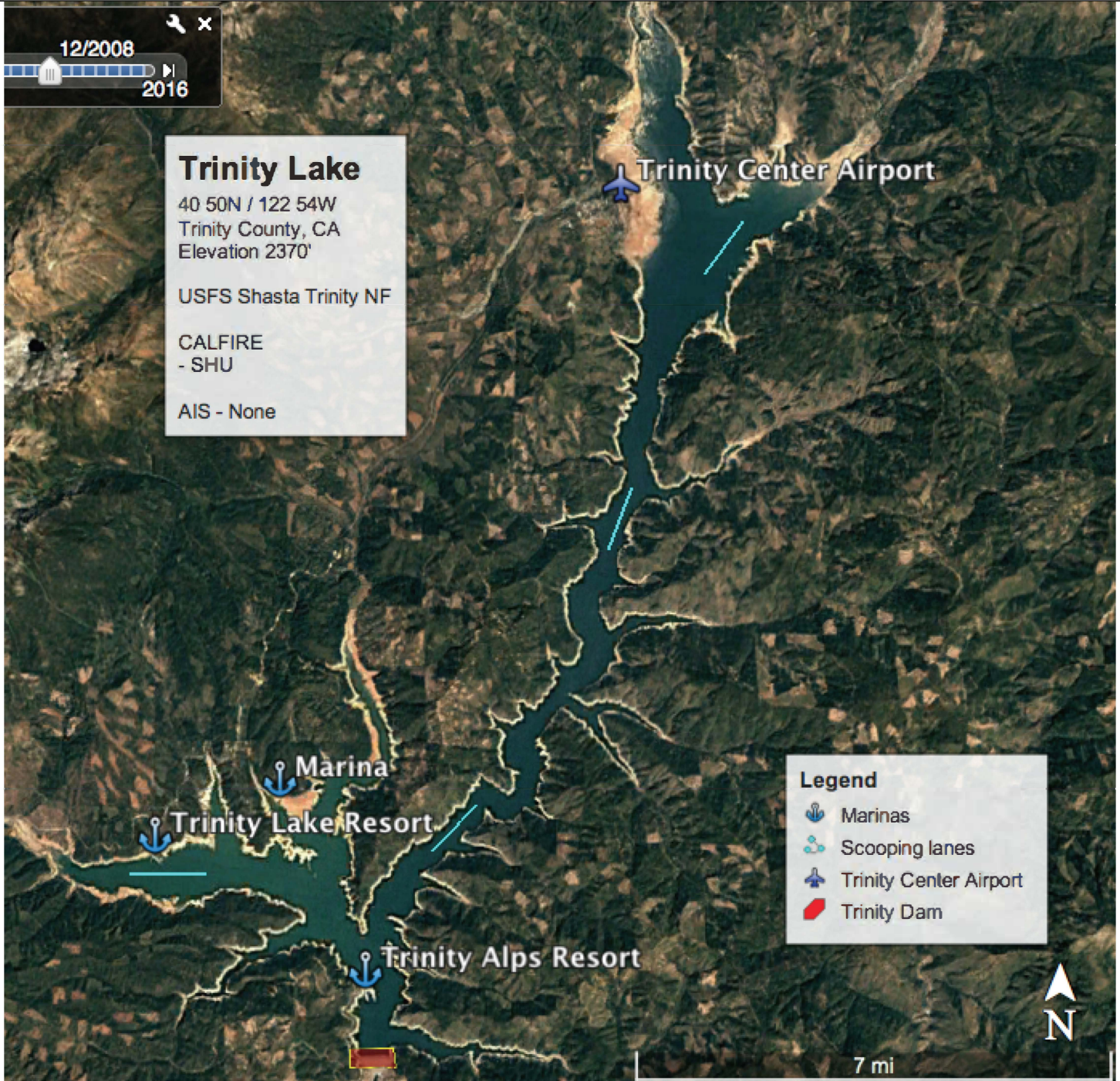
Administration Information:	
Forest/Bureau/State:	Shasta Trinity National Forest
Location:	Redding, CA
Email:	jmcassey@fs.fed.us
Phone:	530-226-2500

Known Hazards:	
Structure(s):	Dam South end.
Water:	Water level high (May 2017)
Recreation:	Potentially high
Other:	Trinity Center Airport (O86) on NW Shore. CTAF 122.9

Known Invasive Species:	None per 7/15/17 survey of USGS AIS database
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Environmental Mitigations Needed Pre/Post Scooping:	
Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan.	

Comments:	John Casey FAO (530) 347-2152, Redding ECC Federal Aircraft Dispatch (530) 226-2400
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SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Shasta Lake – Shasta County, CA last updated by J Robinson 9/9/2017, updated <i>Comments</i> from previous lake plan.				
Latitude*:	40° 44.78	Longitude*:	122° 24.36	Elevation:	1070'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Shasta Trinity National Forest
Name:	John Casey – Forest Aviation Officer
Phone:	530-727-7045
Email:	jmcassey@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES

Law Enforcement Jurisdiction:	
Name:	Shasta County Sheriff's Department
Phone:	530-245-6540
Location:	Redding, CA (Dispatch)
Email:	sheriff@co.shasta.ca.us

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

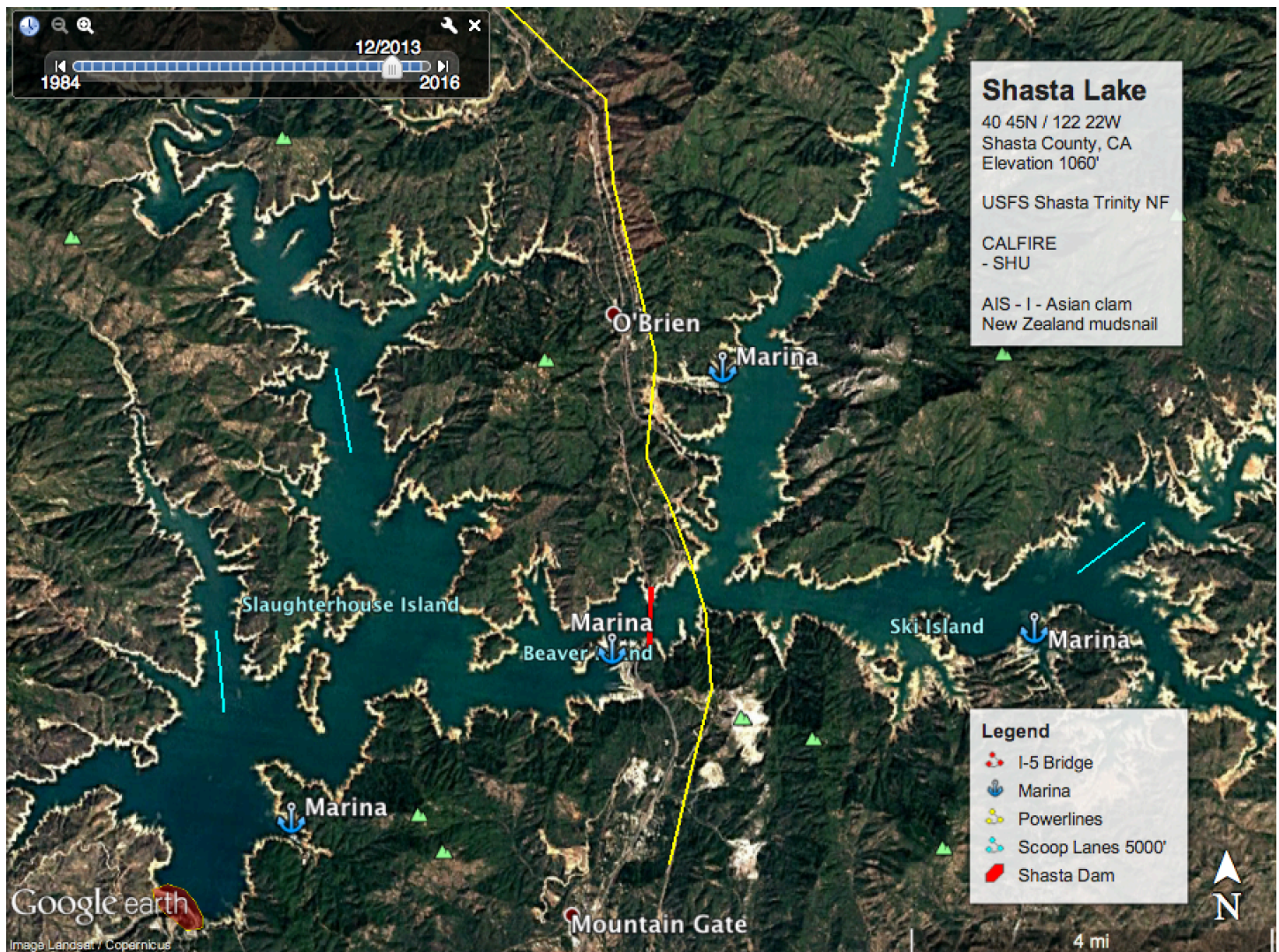
Administration Information:	
Forest/Bureau/State:	Shasta Trinity National Forest
Location:	Redding, CA
Email:	jmcassey@fs.fed.us
Phone:	530-226-2500

Known Hazards:	
Structure(s):	Dam on South Side, Numerous marinas, Bridge on I -5.
Water:	High water level (May 2017), fair amount of debris
Recreation:	Potentially high recreational usage
Other:	Bridge Bay Seaplane Base W. of I-5 bridge. CTAF-122.9

Known Invasive Species:	Asian clam, New Zealand mudsnail
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Environmental Mitigations Needed Pre/Post Scooping:
Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan.

Comments:	John Casey FAO (530)347-2152, Shasta County Sheriff has a Marine Unit if needed (530)245-6075
	Redding ECC Federal Aircraft Dispatch (530) 226-2400





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Ruth Lake – Trinity County CA last update 8/8/17 J Robinson				
Latitude*:	40° 19.90	Longitude*:	123° 23.83	Elevation:	2657'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Humboldt Bay Municipal Water District
Name:	John Friedenbach, Kris Harris
Phone:	707-443-5018
Email:	friedenbach@hbmwd.com

CONTACT NEEDED PRIOR TO SCOOPING?**YES**

Contact Water District, email water usage when ops complete. Email notification if after hours or weekend. Notify Sheriff Dispatch.

Law Enforcement Jurisdiction:	
Name:	Trinity County Sheriff's Office
Phone:	530-623-2611 - Dispatch
Location:	Weaverville, CA
Email:	e911@trinitycounty.org

PERMISSION NEEDED PRIOR TO SCOOPING?**No**

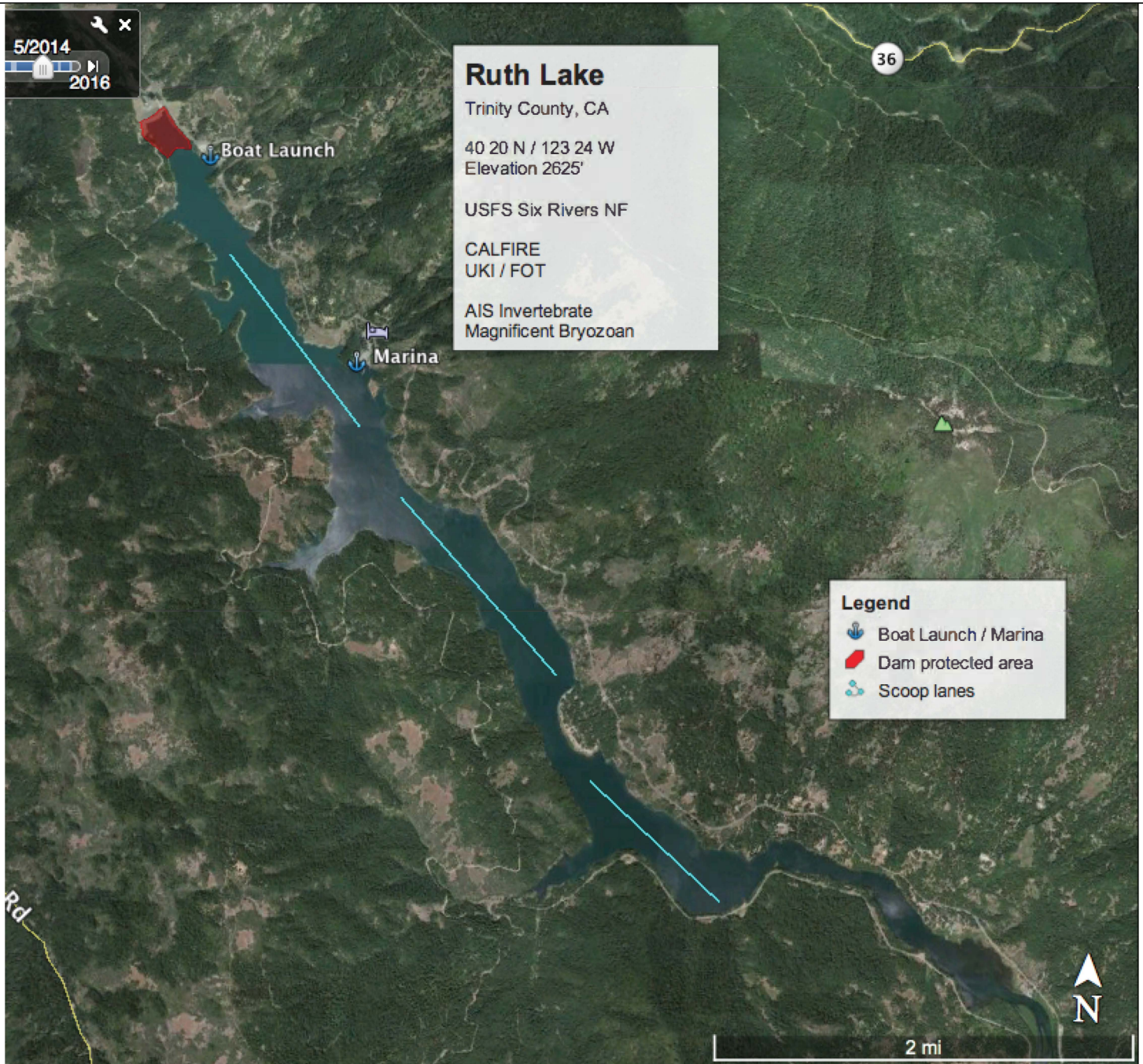
Administration Information:	
Forest:	Six Rivers NF – Mad River Ranger District
Location:	Bridgeville, CA 95526
Email:	District Ranger Dan Dill
Phone:	707 574-6233

Known Hazards:	
Structure(s):	Dam on N. End, Numerous boat launches along shore.
Water:	Water level good per 5/19/17 Aerial survey
Recreation:	Potential high recreational usage
Other:	No power lines, good exit to North and South

Known Invasive Species:	Invertebrate, magnificent bryozoan (MB) Surveyed 8/8/17 JR
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Environmental Mitigations Needed Pre/Post Scooping:
Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan.

Comments:	Ruth Lake Marina 707 574-6194, Manager Buck Harbour.
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5/2014
2016

Ruth Lake

Trinity County, CA

40 20 N / 123 24 W
Elevation 2625'

USFS Six Rivers NF

CALFIRE
UKI / FOT

AIS Invertebrate
Magnificent Bryozoan

36

Boat Launch

Marina

Legend

- Boat Launch / Marina
- Dam protected area
- Scoop lanes

Rd

N

2 mi



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Lake Almanor – Lassen N.F.				
Latitude*:	N 40° 15'	Longitude*:	W 121° 10'	Elevation:	4500'

*If specific portions of water body are to be used, determine lat/long for specific area, if not use center of water body

Operational Control:	
Owner:	Pacific Gas & Electric
Name:	Richard Pomati/Caribou Control Center
Phone:	530-892-4500/530-283-4330*
Email:	rrp5@pge.com
*Phone numbers listed are for the Caribou Control Center which are staffed 24/7	

CONTACT NEEDED PRIOR TO SCOOPING?

YES

Law Enforcement Jurisdiction:	
Name:	Plumas County Sheriff/Ian James
Phone:	530-258-3111/530-816-0430
Location:	Chester, CA
Email:	ijames@pcso.net

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

Administration Information:	
Forest/Bureau/State:	LNF/USFS Erick Stemmerman-District Ranger(Acting) John Bristow DFMO
Location:	Almanor Ranger District
Email:	erickstemmerman@fs.fed.us , jbristow@fs.fed.us
Phone:	ES - 530-258-5110 JB - 530-310-3551

Known Hazards:	
Structure(s):	Structures adjacent to lake on all sides, small powerhouse near dam in water
Water:	Some islands and shallow areas depending on water level, stumps near shoreline
Recreation:	Heavy recreation, boaters, small craft during summer months.
Other:	Chester Rogers Field(O05) & Chester AAB. Light/Moderate GA and fire aviation activity.

Known Invasive Species:	No known invasive species
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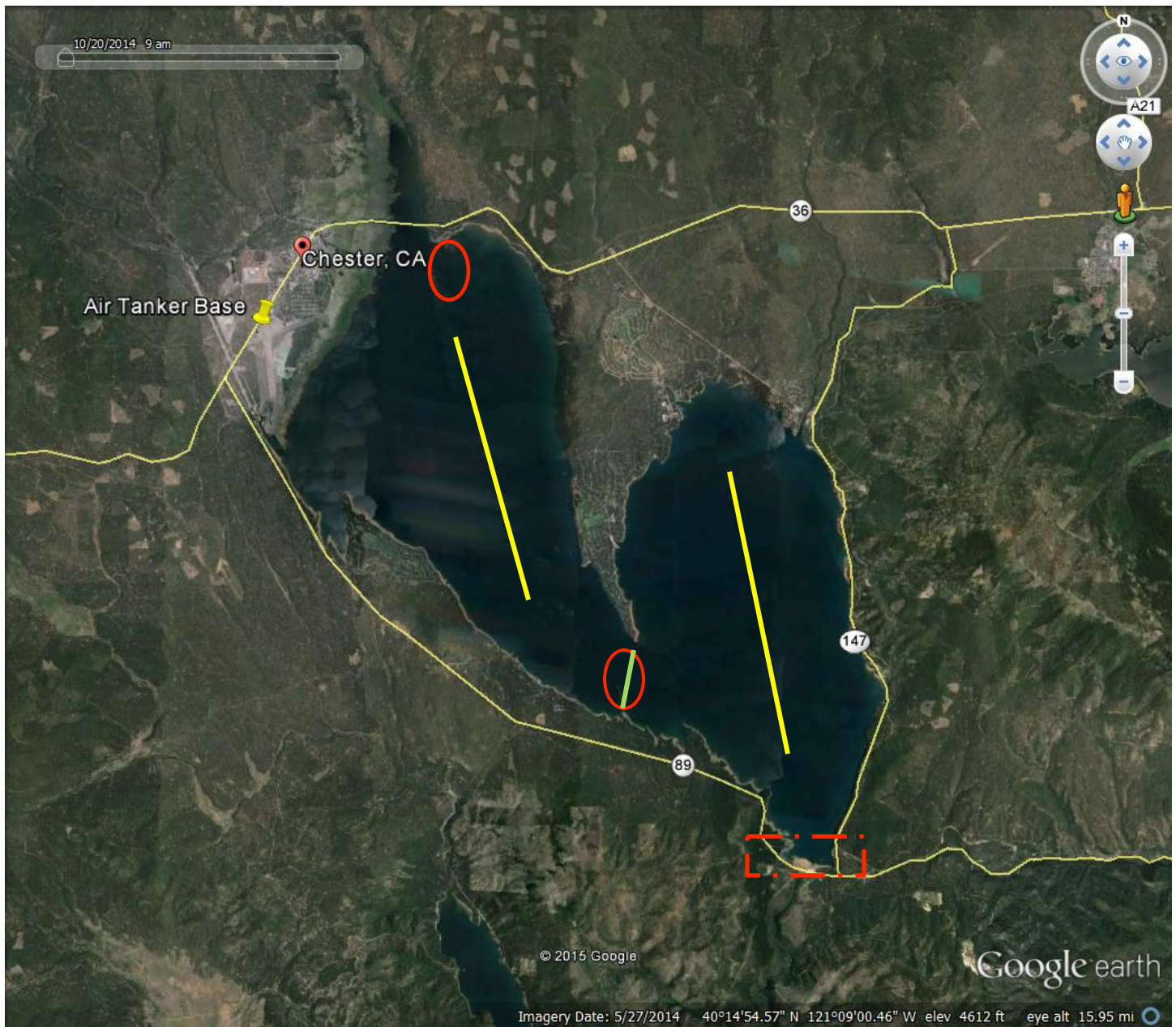
Environmental Mitigations Needed Pre/Post Scooping:	Ensure aircraft is clean before use.
Tank decontamination procedures conducted as per 2016 Amphibious Water Scooper Aircraft Operations Plan	

Comments:	*Primary wind direction S/SW around increase in speed around 1300 each day.
*No known submerged tree load in lake.	
*Large birds on North West corner to North end of lake near airport. No resource concerns.	

Lake Almanor – Lassen N.F.

Lat/Long - N40°15' x W121° 10'

Lake Elevation: 4500'



— ~ 4 Miles (21,120 ft.) Long*

— ~ 1 Mile (5280 ft.) wide at Narrowest Point*

○ Islands emerging, low water level



Dam – Spillway Elevation 4540'

*Based on Imagery date of 5/27/2014



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Antelope Lake, Plumas National Forest				
Latitude*:	40 10.49	Longitude*:	120 35.36	Elevation:	5262

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Plumas N.F.
Name:	Beckworm R.D>
Phone:	530-836-2575
Email:	530-283-1821 or 283-0555

CONTACT NEEDED PRIOR TO SCOOPING?

YES x

Law Enforcement Jurisdiction:	
Name:	Plumas County Sheriff
Phone:	530-283-6375 Dispatch
Location:	Quincy, CA
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO x

Administration Information:	
Forest/Bureau/State:	Plumas N.F.
Location:	Mt. Hough R.D.
Email:	
Phone:	530-836-2575

Known Hazards:	
Structure(s):	Dam in the S.W. side.
Water:	
Recreation:	
Other:	

Known Invasive Species:	None per AIS survey 10/1/16
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Environmental Mitigations Needed Pre/Post Scooping:
Tank Decontamination procedures conducted as per 2016 Amphibious Water Scooper Operations Plan.

Comments:	Dam is managed by CA Dept. of Water Resources #916-653-6192.
	Angie Mantalo Cal. State Environmental #530-225-2317



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Frenchman Reservoir				
Latitude*:	39 55	Longitude*:	120 12	Elevation:	5600'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	CA Dept. of Water Resources
Name:	Luis Sepulveda – Dam Master Gina House – Regional Supervisor
Phone:	Luis – 530-616-0439
Email:	Luis.sepulveda@water.ca.gov

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Contact Luis Sepulveda and notify Sheriff

Law Enforcement Jurisdiction:	
Name:	Plumas County Sheriff Brian Narcus – Boat Patrol 608
Phone:	530-283-6300 (Dispatch)
Location:	
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

YES – Sheriff will make determination based on Recreation activity.

Administration Information:	
Forest/Bureau/State:	Plumas NF – Beckwith RD
Contact:	Paul Czeszynski – Asst. DR
Email:	
Phone:	530-283 – 7838 Plumas Dispatch

Known Hazards:	
Structure(s):	Isthmus in middle
Water:	
Recreation:	High recreation
Other:	Sheriff will determine usage based on recreation on lake

Known Invasive Species: No Known

Environmental Mitigations Needed Pre/Post Scooping:
As per Water Scooper Operational Plan

Comments:
Must track water usage for DWR and report via email



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Lake Davis, Plumas County CA updated 8/8/17 J Robinson				
Latitude*:	39 54.46	Longitude*:	120 30.15	Elevation:	5791

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Plumas N.F.
Name:	Beckworm R.D>
Phone:	530-836-2575
Email:	

CONTACT NEEDED PRIOR TO SCOOPING?

YES – notify Plumas Sheriff

Law Enforcement Jurisdiction:	
Name:	Plumas County Sheriff
Phone:	530-283-6375 Dispatch
Location:	Quincy, CA
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Administration Information:	
Forest/Bureau/State:	Plumas N.F.
Location:	
Email:	
Phone:	530-836-2575

Known Hazards:	
Structure(s):	Dam in the S.E. corner.
Water:	
Recreation:	Sailboating
Other:	

Known Invasive Species:	None per USGS AIS survey 8/8/17 by JRobinson
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Environmental Mitigations Needed Pre/Post Scooping:	
Tank Decontamination procedures conducted as per Amphibious Water Scooper Operations Plan.	

Comments:	Dam is managed by CA Dept. of Water Resources #916-653-6192.



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Bucks Lake, Plumas National Forest				
Latitude*:	39 53.34	Longitude*:	121 11.46	Elevation:	5364

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	PG&E
Name:	Tom Beene
Phone:	530-215-4812
Email:	GTBA@PGE.com

CONTACT NEEDED PRIOR TO SCOOPING?

YES

Law Enforcement Jurisdiction:	
Name:	Plumas County Sheriff
Phone:	530-283-6375 Dispatch
Location:	Quincy, CA
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Administration Information:	
Forest/Bureau/State:	Plumas N.F.
Location:	Mt Hough R.D.
Email:	
Phone:	530-836-2575

Known Hazards:	
Structure(s):	Bridge on the West side.
Water:	
Recreation:	Yes
Other:	

Known Invasive Species:	None per AIS survey 10/1/16
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Environmental Mitigations Needed Pre/Post Scooping:
Tank Decontamination procedures conducted as per 2016 Amphibious Water Scooper Operations Plan

Comments:	USFS contacts Dave Updike FMO #310-579-7874, Chris Holland LEI #530-283-7834. PG&E Aviation AJA #707-392-8987, after hours 707-449-5833 (call and send emails prior to ops).
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Scooper Water Source Coordination Worksheet



NAME:	Black Butte Reservoir – Tehama/Glenn, California			last update 8/10/2017 by: Pat Goodrich	
Latitude*:	39° 48' N	Longitude*:	122° 21' W	Elevation:	466'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Corps of Engineers
Name:	Bill Miller
Phone:	530-865-4781
Email:	William.miller@usace.army.mil

CONTACT NEEDED PRIOR TO SCOOPING?

YES - Contact Bill Miller @ USACE

Law Enforcement Jurisdiction:	
Name:	Corps of Engineers Rangers
Phone:	530-865-4781
Location:	Black Butte Lake
Email:	Tehama County Sheriff 530-529-4150 Glenn Country Sheriff 530-934-6441

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

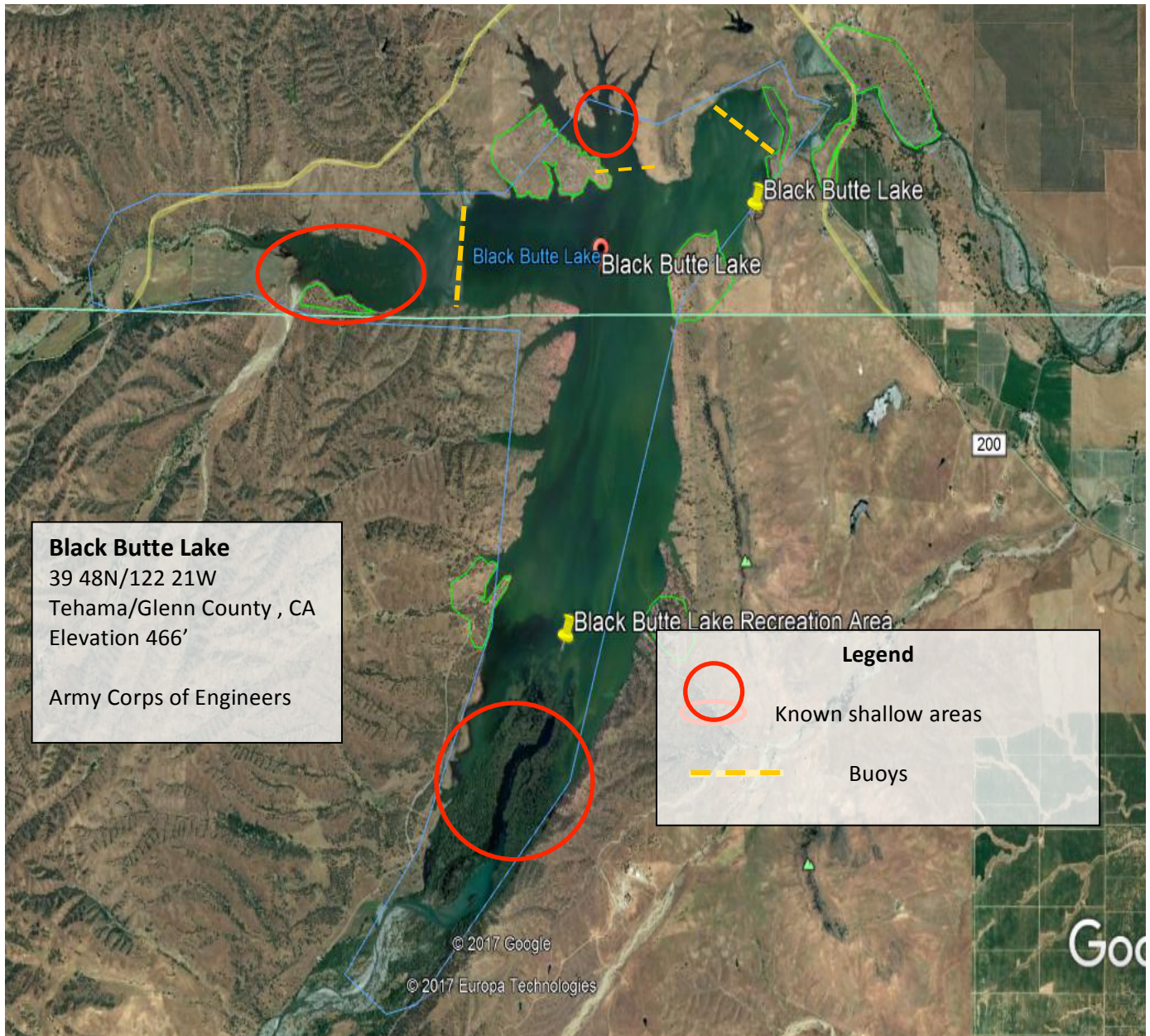
Administration Information:	
Forest/Bureau/State:	Germain Burrows, Mendocino National Forest
Location:	Willows
Email:	gburrows@fs.fed.us
Phone:	530-934-7758 ext. 1120

Known Hazards:	
Structure(s):	Dam on northeast end of reservoir.
Water:	Shallow areas in far end of west arm. Far south end of lake is shallow. The small north arm is shallow. Large water level fluctuations. Local Corps of Engineers can provide water level details if required, 530-865-4781.
Recreation:	Heavy boat recreation use. Multiple boat launches.
Other:	No boat traffic 10/6/17, and only 2 boats on 10/7/17

Known Invasive Species:	None per USGS survey Pat Goodrich 8/10/2017
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Environmental Mitigations Needed Pre/Post Scooping:	
Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan	

Comments:	Do not fly over dam, avoid campsites. Used for CL-415 Crew training 10/6 – 10/7/17
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SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Little Grass Valley Reservoir, Plumas National Forest				
Latitude*:	39 44	Longitude*:	120 58	Elevation:	5100

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	South Feather Water and Power Agency
Name:	Emergency Dispatch
Phone:	(530) 533-4578
Email:	

CONTACT NEEDED PRIOR TO SCOOPING?

NO

Law Enforcement Jurisdiction:	
Name:	Plumas County Sheriff
Phone:	530-283-6375 Dispatch
Location:	Quincy, CA
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Administration Information:	
Forest/Bureau/State:	USFS Plumas N.F.
Location:	Feather River Ranger District
Email:	
Phone:	530-534-6500

Known Hazards:	
Structure(s):	Dam west end of lake
Water:	Water level high 2016
Recreation:	Camping, boating, swimming
Other:	

Known Invasive Species:	None per 10/1/16 AIS survey
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Environmental Mitigations Needed Pre/Post Scooping:
Tank Decontamination procedures conducted as per 2016 Amphibious Water Scooper Operations Plan.

Comments:



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Lake Oroville – Butte County, CA				
Latitude*:	39 33.6	Longitude*:	121 28.0	Elevation:	833'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Cal. Dept. of Water Resources
Name:	CWR Duty Chief
Phone:	916-845-8911*
Email:	

CONTACT NEEDED PRIOR TO SCOOPING?YES ☒NO ☐

Law Enforcement Jurisdiction:	
Name:	Butte County Sheriff
Phone:	530-538-7321
Location:	Oroville, CA
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?YES ☐NO ☒

Administration Information:	
Forest/Bureau/State:	CAL FIRE - BTU
Location:	Oroville, CA
Email:	
Phone:	530-823-4904

Known Hazards:	
Structure(s):	Dam on SW side
Water:	Level good per May 2017 survey
Recreation:	O06 Sea Plane Base CTAF 122.9
Other:	

Known Invasive Species: Non per 10/1/16 AIS survey

Environmental Mitigations Needed Pre/Post Scooping:
Tank decontamination procedures conducted as per 2016 Amphibious Water Scooper Aircraft Plan

Comments:
*Phone number to OES Warning Center, They will notify DWR Duty Chief



TOC

SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Stony Gorge Res – Glenn County, CA last update 8/10/2017 by: Pat Goodrich				
Latitude*:	39° 33' N	Longitude*:	122° 31' W	Elevation:	841'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Bureau of Reclamation
Name:	Rich Robertson (manager)
Phone:	530-934-1327
Email:	Local ranger contact 530-968-5267

CONTACT NEEDED PRIOR TO SCOOPING?YES **X (Contact Local Rangers)**

NO

Law Enforcement Jurisdiction:	
Name:	Glenn County Sherriff Department
Phone:	530-934-6441
Location:	Willows California
Email:	gcsoadmin@countyofglenn.net

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO **X**

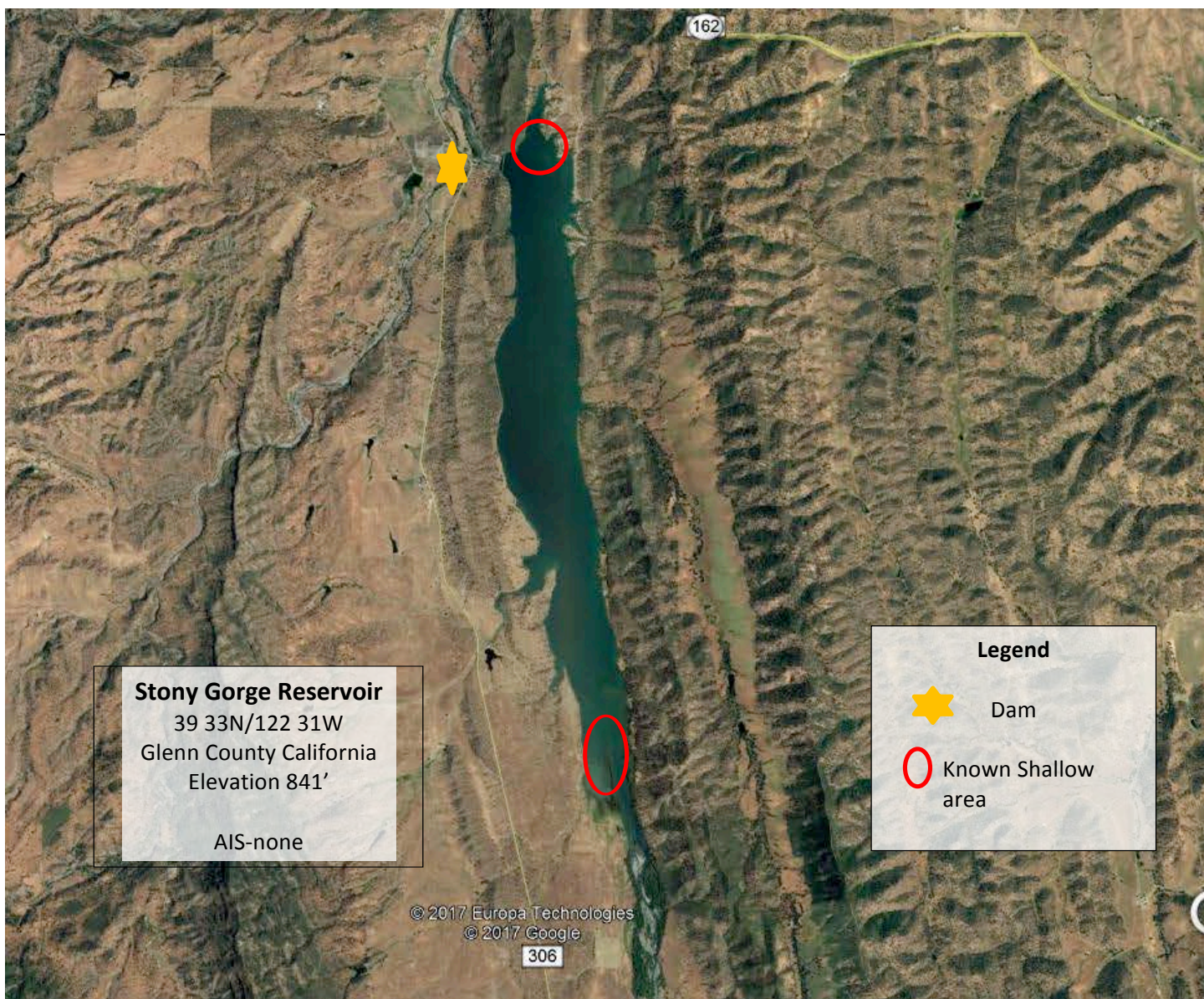
Administration Information:	
Forest/Bureau/State:	Germain Burrows, Mendocino National Forest
Location:	Willow
Email:	gburrows@fs.fed.us
Phone:	530-934-7758 ext. 1120

Known Hazards:	
Structure(s):	Dam on north end of lake.
Water:	Large water fluctuations.
Recreation:	Heavy recreation use on weekends.
Other:	

Known Invasive Species: None per USGS survey Pat Goodrich 8/10/2017

Environmental Mitigations Needed Pre/Post Scooping:
Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan

Comments: Ranger office at lake can be reached at 530-968-5267 for questions about boating activity and water Levels. John Hutchings is Bureau of Reclamation Wildfire Manager, jhutchings@usbr.gov 916-978-5516





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	BOWMAN LAKE				
Latitude*:	N 39° 27'	WGS84	Longitude*:	W120° 38'	WGS84
Elevation:	± 5500'				

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control: Nevada Irrigation District	
Owner:	Nevada Irrigation District (NID)
Name:	Keane Sommers
Phone:	530-273-8571 ext:101
Email:	sommers@nidwater.com

CONTACT NEEDED PRIOR TO SCOOPING?

NO * For informational purposes, notify Keane Sommers by email when the lake is used.

Law Enforcement Jurisdiction: Nevada County Sheriff	
Name:	Sgt. Daniel Saunders
Phone:	530-265-7880 (Dispatch)
Location:	Truckee, CA
Email:	daniel.saunders@co.nevada.ca.us

PERMISSION NEEDED PRIOR TO SCOOPING?

NO * Call Dispatch and let Duty Officer know lake was used. * For informational purposes, notify Sgt. Saunders by email when the lake is used.

Administration Information: Yuba River Ranger District	
Forest/Bureau/State:	Tahoe National Forest
Name:	Heather Newell
Email:	hnewell@fs.fed.us
Phone:	530-288-3231

Known Hazards:	
Structure(s):	2 dams at west end of lake. Powerlines that run from the west end of dam down the drainage and along the hillside on north side of lake and between McMurray and Bowman lakes.
Water:	Islands in the east half of the lake. May be more covered than depicted below due to higher water levels.
Recreation:	Light to Moderate
Other:	

Known Invasive Species: None Known

Environmental Mitigations Needed Pre/Post Scooping: Ensure aircraft is clean before use in water body. Conduct tank decontamination procedures as per Amphibious Water Scooper Aircraft Operations Plan 2016.

Comments: Possible debris on lake from multiple heavy rain/snow events over winter.

Bowman Lake

Lat/Long – **N39° 27' x W120° 38'** WGS 84

Lake Elevation +/- **5500'**



— ≈ 8500 Feet Long*

— Power Lines

— Left to Right ≈ 1400, 1800 Feet Wide at Narrowest Point*

- - - Dam – South Spillway Elevation ≈ 5515'

○ Islands

North Spillway Elevation ≈ 5569'

*Based on Google Earth Imagery date of 4/15/15

Updated June 13, 2017



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Stampede Reservoir				
Latitude*:	N 39° 28'	WGS84	Longitude*:	W 120° 19'	Elevation: +/- 5800'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control: Federal Water Master	
Owner:	Bureau of Reclamation
Name:	Jack Worsley
Phone:	775-884-8356
Email:	jworsley@usbr.gov

CONTACT NEEDED PRIOR TO SCOOPING?

NO - email Jack Worsley for informational purposes.

Law Enforcement Jurisdiction: Sierra County Sheriff	
Name:	Tim Standley
Phone:	530-289-3700 (Dispatch)
Location:	Downieville
Email:	timstandley@sierracounty.ca.gov

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Administration Information: Joanne Roubique	
Forest/Bureau/State:	Tahoe National Forest
Location:	Truckee Ranger District
Email:	jroubique@fs.fed.us
Phone:	530-587-3558

Known Hazards:	
Structure(s):	Dam on south east corner of reservoir,
Water:	Lake levels almost full this year.
Recreation:	Waterskiing, sailing, boating, kayaking, jet skiing, fishing
Other:	Eagle nest north of Dam

Known Invasive Species: None per 10/1/17 AIS survey

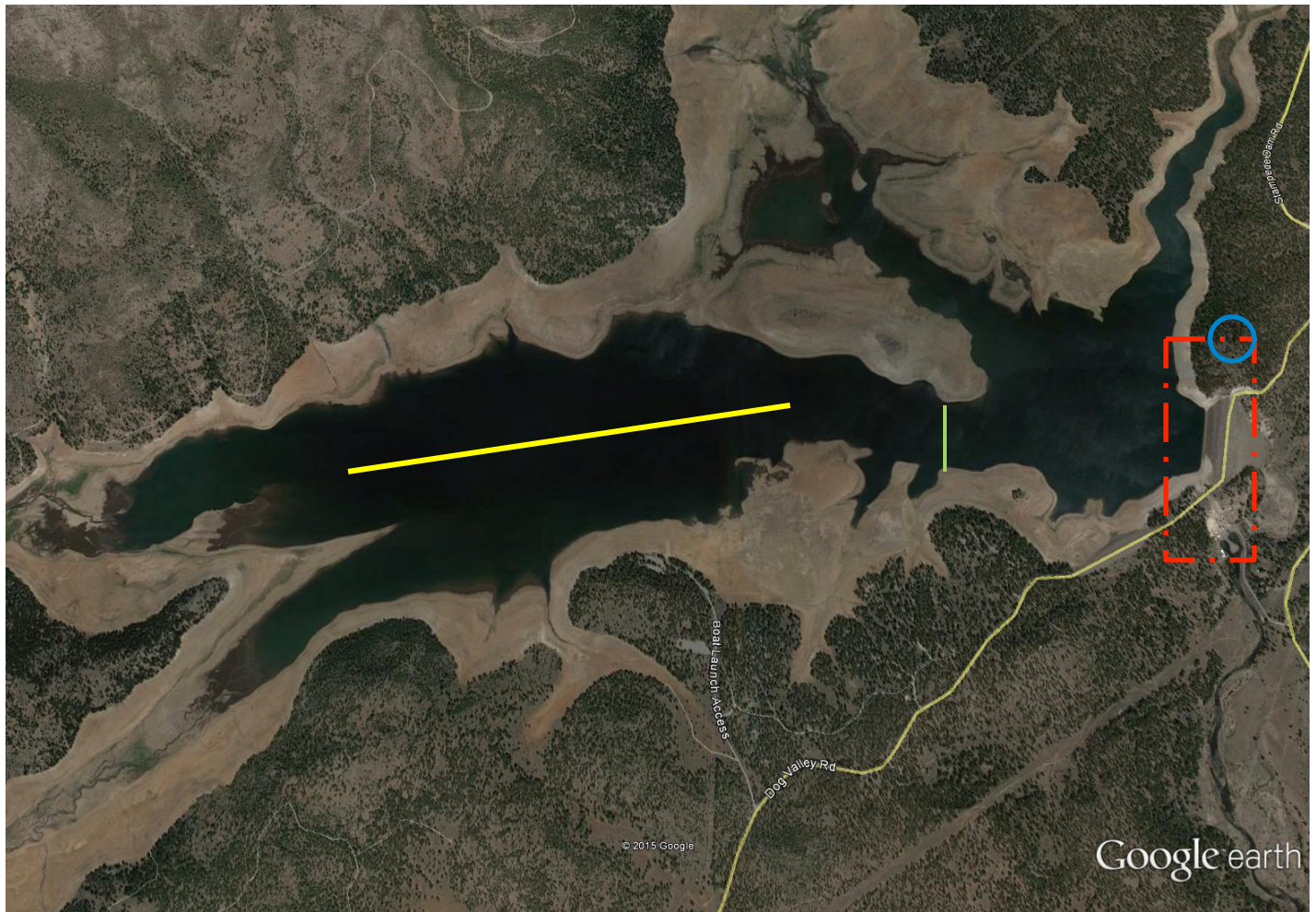
Environmental Mitigations Needed Pre/Post Scooping: Ensure aircraft is clean before use.
Conduct tank decontamination procedures as per Amphibious Water Scooper Aircraft Operations and Evaluation Plan 2016.

Comments: * FWS planted endangered Lahontan Trout.
**Caution: there may be construction around the dam area. Project is moving to implementation soon.

Stampede Reservoir

Lat/Long - **N39° 28' x W120° 19'** WGS 84

Lake Elevation +/- **5800'**



— ~ 7000 Feet Long*

— ~ 900 Feet Wide at Narrowest Point*



Dam – Spillway Elevation 5949'



Eagle Nest

*Based on Google Earth Imagery Date 4/16/2015.



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Bullards Bar Reservoir				
Latitude*:	N 39° 26' WGS84	Longitude*:	W 121° 08' WGS84	Elevation:	+/- 1900'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Yuba County Water Agency (YCWA)
Name:	Colgate Operations Center
Phone:	530-740-7100
Email:	mmiller@ycwa.com

CONTACT NEEDED PRIOR TO SCOOPING?

YES – If possible, otherwise after to Colgate Operations Center. For informational purposes, notify Maury Miller by email when the lake is used.

Law Enforcement Jurisdiction: Yuba County Sheriff	
Name:	Ask for and talk to Hill Duty Officer
Phone:	530-749-7777 Dispatch then press 4
Location:	
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Administration Information:	
Forest/Bureau/State:	Tahoe National Forest
Location:	Heather Newell
Email:	hnewell@fs.fed.us
Phone:	530-288-3231

Known Hazards:	
Structure(s):	Dam on south end of reservoir, Marina and moorings at south end of reservoir. Floating comfort stations 50-100' from shore. Buoy line across Tractor Cove and near Mill Creek.
Water:	Lake is full. Debris on lake from heavy rain during winter.
Recreation:	High recreational use. Houseboats, boats, waterskiing, jet skiing
Other:	KV Transmission lines across canyon below dam. Light Standards on Dam.

Known Invasive Species: Asian Clam

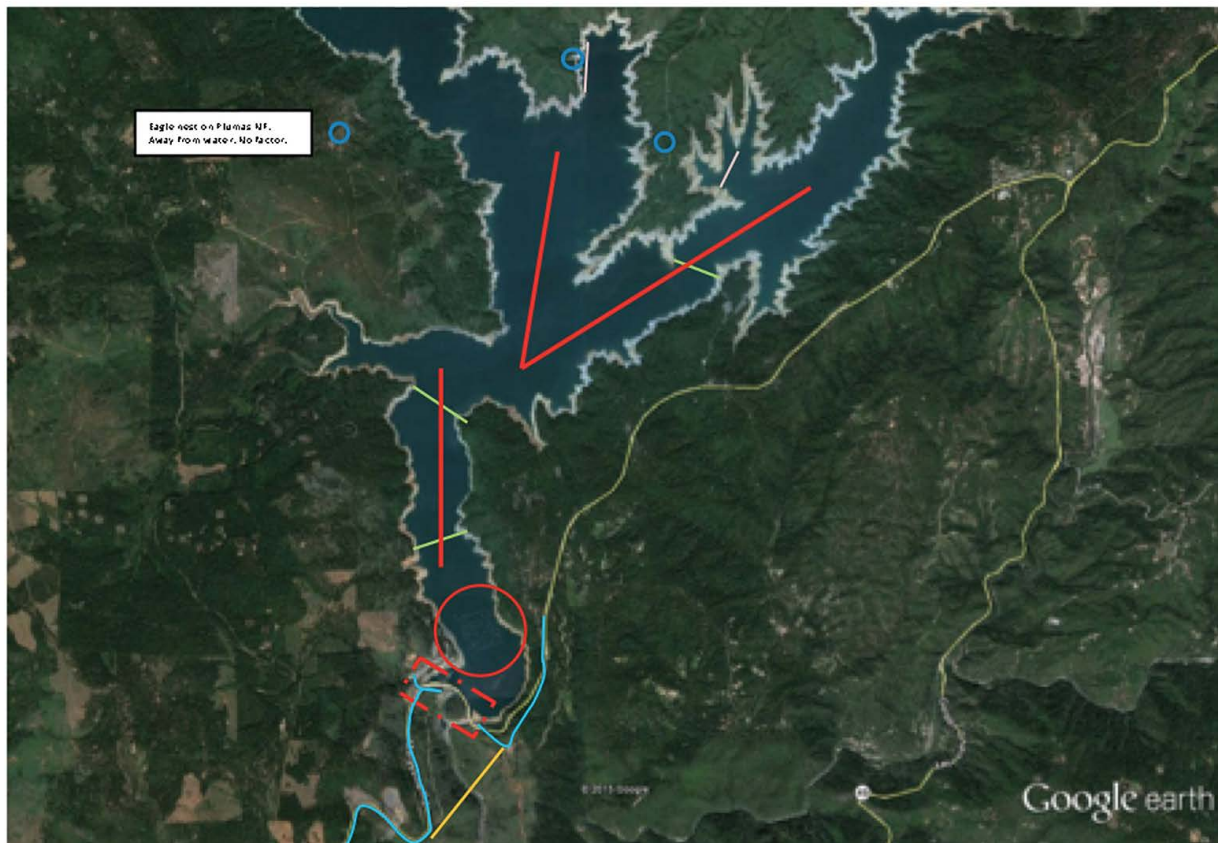
Environmental Mitigations Needed Pre/Post Scooping: Ensure aircraft is clean before use in water body.
Conduct Tank decontamination procedures as per Amphibious Water Scooper Aircraft Operations Plan.

Comments: *Eagle nest Near Tractor Cove. Second Eagle nest near the water at Mill Creek.
Yuba County Ordinance 8.50.050.f: no landing aircraft on lake except in an emergency. Have been approved.

Bullards Bar Reservoir

Lat/Long – N39° 26' x W121° 08' WGS 84

Lake Elevation +/- 1900'



Left to Right ~6000, 6800, 11500 Feet Long*

Bottom to Top ~ 1400, 1450, 1300 Feet Wide at Narrowest points*

*Based on Google Earth Imagery date of 4/15/15

KV Transmission Lines

Roadside Powerlines

Buoy Line Tractor Cove

Dam – Spillway Elevation 1902'

Boat Moorings

Eagle Nests

Updated June 13, 2017



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Donner Lake – Nevada County, CA				
Latitude*:	39 19N	Longitude*:	120 00W	Elevation:	5935

Operational Control:	
Owner:	California State Parks
Name:	
Phone:	Disp. #916-358-1300
Alt Contact:	916-358-1310

CONTACT NEEDED PRIOR TO SCOOPING?

YES - Donner Memorial Park and Truckee PD
dispatch

Law Enforcement Jurisdiction:	
Name:	Town of Truckee PD
Phone:	530-550-2320 Dispatch
Location:	Truckee, CA
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Administration Information:	
Forest/Bureau/State:	Donner Mem. State Park
Location:	Donner Lake
Email:	
Phone:	530-582-7892

Known Hazards:	
Structure(s):	None
Water:	None
Recreation:	Town of Truckee PD Marine Unit
Other:	

Known Invasive Species: Asian clams

Environmental Mitigations Needed Pre/Post Scooping:
Tank Decontamination procedures conducted as per 2016 Amphibious Water Scooper Operations Plan.

Comments: Enviro. Scientist: Tamera Sasaki 530-525-9535
Truckee PD Marine Unit 530-265-7880



2.11 nm Long x .41 nm Wide



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Lake Mendocino – Mendocino County, CA last update: 8/11/2017 by: Patrick Goodrich				
Latitude*:	39° 13' N	Longitude*:	123° 10' W	Elevation:	732'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Army Corps of Engineers, San Francisco
Name:	Derek Dunlap , deputy chief of operations
Phone:	415-503-6772
Email:	Derek.p.dunlap@usace.army.mil

CONTACT NEEDED PRIOR TO SCOOPING?

YES X

NO

Law Enforcement Jurisdiction:	
Name:	Josh Berkhead, Army Corps of Eng.
Phone:	707-467-4225, cell: 707-293-5429
Location:	Lake Mendocino
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO X

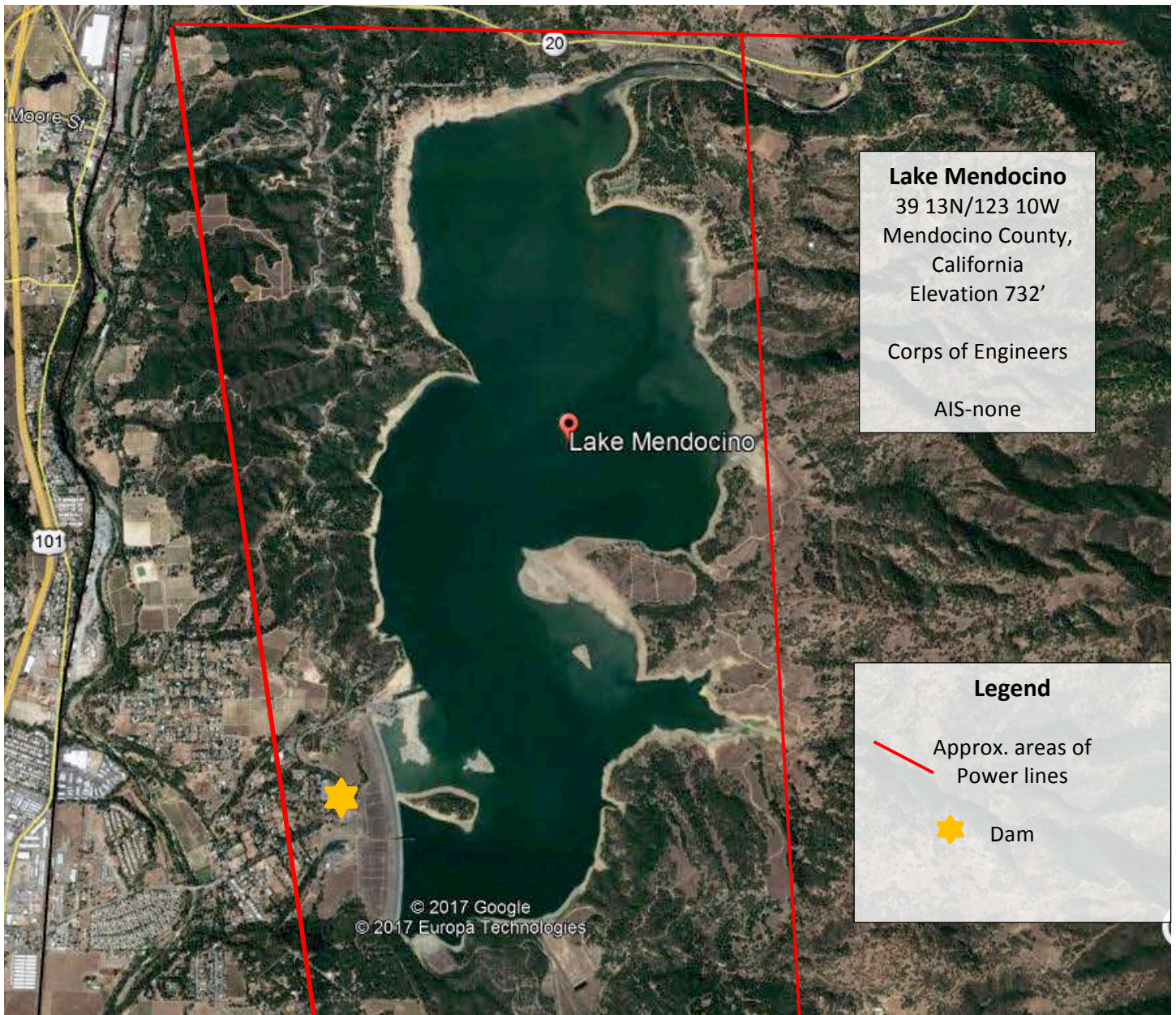
Administration Information:			
Forest/Bureau/State:	Germain Burrows, Mendocino National Forest	Forest/Bureau/State:	Calfire Ukiah Bataliion Chief Ray Taglio
Location:	Willows	Location:	Ukiah
Email:	gburrows@fs.fed.us	Email:	Meu.ukiahairattackbase@fire.ca.gov
Phone:	530-934-7758 ext. 1120	Phone:	707-462-6102

Known Hazards:	
Structure(s):	Dam on south end of lake.
Water:	South end of lake is deeper, consult Navionics.
Recreation:	
Other:	Ukiah Airport 4.5 miles south.

Known Invasive Species: None per USGS survey Pat Goodrich 8/10/2017

Environmental Mitigations Needed Pre/Post Scooping:
Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan

Comments: Lake is in Navionics data base. Utilize Navionics for a lake depth reference.





SCOOPER WATER BODY COORDINATION WORKSHEET

NAME:	French Meadows Reservoir				
Latitude*:	N 39° 07'	Longitude*:	W 120° 27'	Elevation:	+/- 5200'

*If specific portions of water body are to be used, determine lat/long for specific area, if not use center of water body

Operational Control:	
Owner:	Placer County Water Agency (PCWA)
Name:	Andy Fecko
Phone:	530-308-4507
Email:	afecko@pcwa.net

CONTACT NEEDED PRIOR TO SCOOPING?

NO

Law Enforcement Jurisdiction:	
Name:	Placer County Sheriff /Lt. Kevin Borden*
Phone:	530-308-1379
Location:	Auburn Justice Center
Email:	kborden@placer.ca.gov

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

*Email Lt. Borden a notification when the lake is used for informational purposes.

Administration Information: Hannah Stone (detail)	
Forest/Bureau/State:	Tahoe National Forest
Location:	American River Ranger District
Email:	hannahstone@fs.fed.us
Phone:	530-478-6254 ext. 247

Known Hazards:	
Structure(s):	Dam on west end of reservoir
Water:	Lake is full. Small islands underwater on east end. Stumps around edges.
Recreation:	Moderate recreational use. Boats, kayaks
Other:	**Construction of 50' Communication tower on NW end of dam late summer, early fall.

Known Invasive Species: None Known. Lake is being monitored for aquatic invasive species. (PCWA)

Environmental Mitigations Needed Pre/Post Scooping: Ensure aircraft is clean before use. Ensure tank de-contamination procedures are conducted as per Amphibious Water Scooper Aircraft Operations 2016.

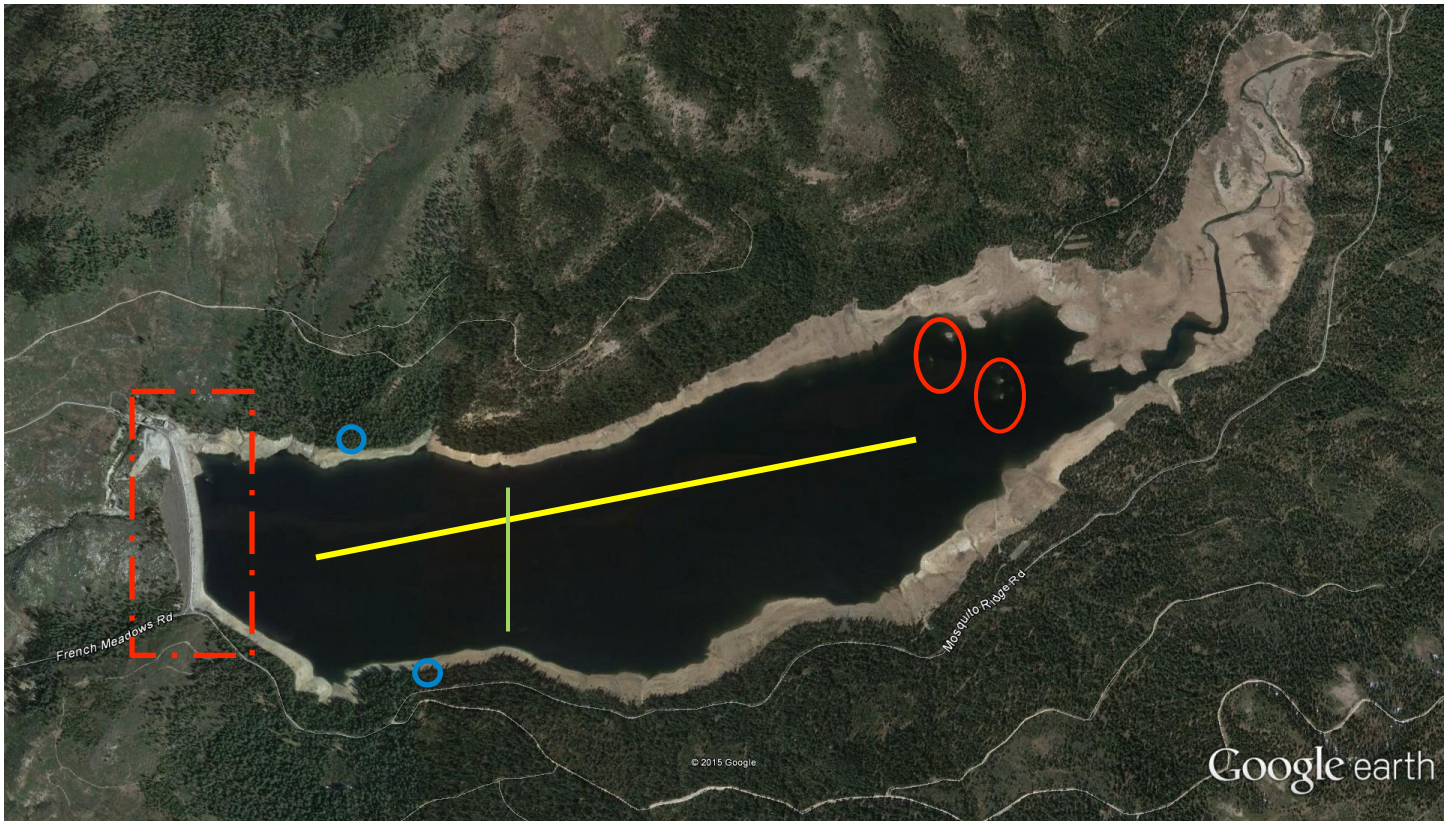
Comments: *Lake often gets winds from the east after 1300.
*No known submerged tree load in lake. Lake may have debris from heavy rain/snow events over winter.
*Osprey nests at west end of lake - Limit disturbance as much as possible.

French Meadows Reservoir

Lat/Long - N39° 07' x W120° 27'

WGS 84

Lake Elevation +/- 5200'



~ 8400 Feet Long*



~ 2200 Feet wide at Narrowest Point*



Islands emerge during low water level



Dam – Spillway Elevation 5263'



Osprey Nests

*Based on Google Earth Imagery date of 4/16/2015

Updated June 6, 2017



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Indian Valley Reservoir – Lake County, CA last update: 9/26/17 by: Patrick Goodrich				
Latitude*:	39° 07' N	Longitude*:	122° 32' W	Elevation:	1422'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Yolo County Flood Control
Name:	Tim O'Halloran
Phone:	C: 530-681-3354/O: 530-662-0265
Email:	tohalloran@ycfcwcd.org
Secondary contact if needed Anthony with Yolo County Flood, 530-979-0618	

CONTACT NEEDED PRIOR TO SCOOPING?

Yes – Contact Tim O'Halloran at YCFL

Law Enforcement Jurisdiction:	
Name:	Andy Davidson, Lake County Sheriff Marine Patrol
Phone:	O: 707-279-1591/C: 707-349-2944/ Dispatch: 707-262-6040
Location:	Lakeport, CA

PERMISSION NEEDED PRIOR TO SCOOPING?

No

Administration Information:	
Forest/Bureau/State:	BLM, Jeff Kenal
Location:	Ukiah CA
Email:	
Phone:	707-468-4053
Forest/Bureau:	Germaine Burrows, Mendocino National Forest
Location:	Willow CA
Email:	gburrows@fs.fed.us
Phone:	530-934-7758 ext. 1120

Known Hazards:	
Structure(s):	Dam on the South end of lake. Power lines below dam.
Water:	Water levels fluctuate throughout the year. Murky water color.
Recreation:	Fishing boats.
Other:	Depending on water level lake may be usable. Many trees below the surface in all parts of the lake. May not be able to see them due to water clarity.

Known Invasive Species: None per USGS survey Pat Goodrich 9/26/2017

Environmental Mitigations Needed Pre/Post Scooping: Tank decontamination procedures conducted as per amphibious Water Scooper Operations Plan and AFI Aquatic Invasive Species Mitigation Plan.





Scooper Water Source Coordination Worksheet



NAME:	Lake Tahoe		last update 10/8/17 by J Robinson		
Latitude*:	39° 06' N	Longitude*:	120° 33' W	Elevation:	6230'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Bi-State CA and NV
Name:	Camino Interagency Command Center Mac Heller / Scott Wylie
Phone:	530-644-0200
Email:	dmheller@fs.fed.us or swylie@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Prior to use contact CICC to notify LTBMU duty officer

Law Enforcement Jurisdiction:	
Name:	US Coast Guard Ch. 16
Phone:	530-583-4433 x 3
Location:	Tahoe City, CA
Email:	Raul.e.mendina@uscg.mil

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Fire Administration Information:	
Agency:	USFS LTBMU John Washington Div Chief 1
Location:	South Lake Tahoe, CA
Email:	jwashington@fs.fed.us
Phone:	530-545-3373

Known Hazards:	
Structure(s):	Piers and docks, stay off shore 400'
Water:	Turbulent water surface with swells
Recreation:	Recreational watercraft – all types, parasails and hot air balloons
Other:	Gusty winds and leeside eddies/rotors off escarpment, mountainous terrain, density altitude, rocky shoreline.

Known Invasive Species: Invasive invertebrates that may be present in Lake Tahoe include Asian clams, signal crayfish, mysid shrimp and gill maggots, non-native plants may be present include Eurasian watermilfoil and curly leaf pondweed.

Environmental Mitigations Needed Pre/Post Scooping:	
Tank decontamination procedures conducted as per AWSA Operations Plan & AFI Aquatic Invasive Species Mitigation Plan.	



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	HELL HOLE RESERVOIR				
Latitude*:	39° 4' 38.519" N	Longitude*:	120° 23' 51.87" W	Elevation:	+/- 4603'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	US FOREST SERVICE
Name:	Camino Interagency Command Center (CICC) Mac Heller or Scott Wylie
Phone:	530-644-0200
Email:	dmheller@fs.fed.us or swylie@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Prior to use contact CICC to notify ENF Duty Officer

NO

Law Enforcement Jurisdiction:	
Name:	PLACER COUNTY SHERIFF'S
Phone:	530-886-5375
Location:	Auburn, CA

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO -X

Administration Information:	
Forest/Bureau/State:	USFS/ENF/CA, Jay Kurth, FFMO
Location:	Placerville, CA
Email:	jkurth01@fs.fed.us
Phone:	530-621-5225

Known Hazards:	
Structure(s):	Boat ramp
Water:	Rocky shore, avoid upper end of the lake, east side of lake
Recreation:	Recreational watercraft-all types
Other:	Gusty winds, mountainous terrain, rocky shoreline stay off shore 300'

Known Invasive Species: Invasive invertebrates that may be present in Hell Hole Reservoir include the Asian clam, crayfish (*non-native*)

Environmental Mitigations Needed Pre/Post Scooping:	
Ensure aircraft has been sanitized for aquatic invasive species prior to deployment or utilization	

HELL HOLE RESERVOIR

Lat / Long 39° 4' 38.519" N 120° 23' 51.87" W

- Lake Elevation +/- 4603

NORTH





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Clear Lake – Lake County, CA last update: 09/27/2017 by: Patrick Goodrich				
Latitude*:	39° 03' N	Longitude*:	122° 50' W	Elevation:	1322'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Lake County Dept of Water Resources
Name:	Phil Moy
Phone:	Office 707-263-2344/Cell 707-530-1500
Other:	Would like to be contacted before scooping but said it was not critical.

CONTACT NEEDED PRIOR TO SCOOPING?

YES- Primary contact is Lake County Sheriff Marine patrol. Secondary contact is Phil Moy at Department of Water Resource.

Law Enforcement Jurisdiction:	
Name:	Andy Davidson, Lake County Sheriff Marine Patrol
Phone:	Office 707-279-1591/Cell 707-349-2944 Dispatch 707-262-6040
Location:	Lakeport CA

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Fire Administration Information:			
Agency:	Germaine Burrows, Mendocino National Forest	Agency:	CALFIRE Battalion Chief Ray Taglio Ukiah
Location:	Willows	Email:	Ukiah
Email:	gburrows@fs.fed.us	Email:	Meu.ukiahairattackbase@fire.ca.gov
Phone:	530-934-7758 ext. 1120	Phone:	707-462-6102

Known Hazards:	
Structure(s):	Power lines of unknown height along all sides of lake.
Water:	Large natural lake. Large amounts of debris during heavy rains.
Recreation:	Heavy Recreation use.
Other:	Hospital Heli pads on the North and South ends of lake. Lampson Airport West shore 122.8

Known Invasive Species: Asian Clam and European Ear Snail per USGS survey Pat Goodrich 9/27/2017. Hydrilla plants in the lake per Lake County department of Water Resources 9/27/2017.

Environmental Mitigations Needed Pre/Post Scooping:
Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan & AFI Aquatic Invasive Species Mitigation Plan.





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	LOON LAKE - El Dorado County, CA				
Latitude*:	38° 59' 56.13" N,	Longitude*:	120° 18' 13.97" W	Elevation:	6416'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	US FOREST SERVICE
Name:	Camino Interagency Command Center (CICC) Mac Heller or Scott Wylie
Phone:	530-644-0200
Email:	dmheller@fs.fed.us or swylie@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Prior to use contact CICC to notify ENF
Duty Officer

NO

Law Enforcement Jurisdiction:	
Name:	EL DORADO COUNTY SHERIFF'S (EDSO)
Phone:	530-621-5655
Location:	Placerville, CA
Email:	almosg@edso.org

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO -X

Administration Information:	
Forest/Bureau/State:	USFS/ENF/CA, Jay Kurth, FFMO
Location:	Placerville, CA
Email:	jkurth01@fs.fed.us
Phone:	530-621-5225

Known Hazards:	
Structure(s):	Campgrounds surrounding lake
Water:	Turbulent water surface, islands at low water levels, protruding bedrock
Recreation:	Recreational watercraft-all types
Other:	Gusty winds, mountainous terrain, density altitude, rocky shoreline stay off shore 300'

Known Invasive Species: None per 10/1/16 AIS survey.

Environmental Mitigations Needed Pre/Post Scooping:	
Ensure aircraft has been sanitized for aquatic invasive species prior to deployment or utilization	

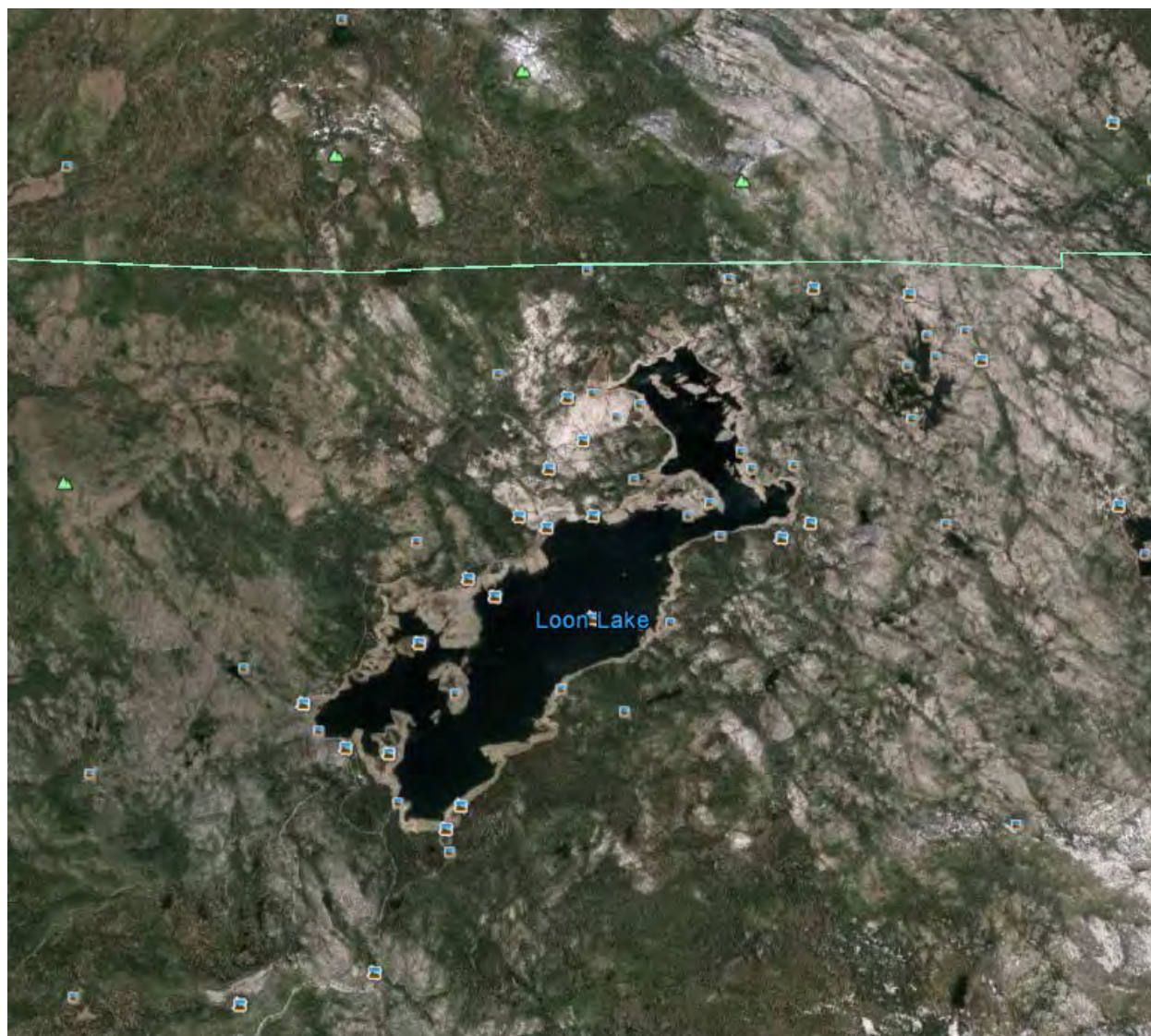
TOC

LOON LAKE

Lat / Long 38° 59' 56.13" N, 120° 18' 13.97" W

- Lake Elevation 6416

NORTH





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	UNION VALLEY RESERVOIR – El Dorado County, CA				
Latitude*:	38° 52' 30.00" N,	Longitude*:	120° 24' 34.00" W	Elevation:	+/- 4900'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	US FOREST SERVICE
Name:	Camino Interagency Command Center (CICC) Mac Heller or Scott Wylie
Phone:	530-644-0200
Email:	dmheller@fs.fed.us or swylie@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Prior to use contact CICC to notify ENF
Duty Officer

NO

Law Enforcement Jurisdiction:	
Name:	EL DORADO COUNTY SHERIFF'S (EDSO)
Phone:	530-621-5655
Location:	Placerville, CA
Email:	almosg@edso.org

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO -X

Administration Information:	
Forest/Bureau/State:	USFS/ENF/CA, Jay Kurth, FFMO
Location:	Placerville, CA
Email:	jkurth01@fs.fed.us
Phone:	530-621-5225

Known Hazards:	
Structure(s):	Swimming docks, stay off shore 200'
Water:	Turbulent water surface, islands at low water levels
Recreation:	Recreational watercraft-all types
Other:	Gusty winds, mountainous terrain, density altitude, rocky shoreline stay off shore 300'

Known Invasive Species: Invasive invertebrates that may be present in Union Valley Reservoir include the Asian clam, signal crayfish (*Pacifastacus leniusculus*), mysid shrimp and gill maggot (*Salmincola californiensis*) (Kamerath et al. submitted). Non-native aquatic plants that may be present include Eurasian watermilfoil and curly leaf pondweed.

Environmental Mitigations Needed Pre/Post Scooping:	
Ensure aircraft has been sanitized for aquatic invasive species prior to deployment or utilization	

UNION VALLEY RESERVOIR

Lat / Long 38° 52' 30.00" N. 120° 24' 34.00" W

- Lake Elevation +/- 4900

NORTH





Scooper Water Source Coordination Worksheet



NAME:	Fallen Leaf Lake El Dorado County, CA last update 10/8/17 by J Robinson				
Latitude*:	38° 54' N	Longitude*:	120° 03' W	Elevation:	6377'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	USFS – Camino CICC
Name:	Mac Heller / Scott Wylie
Phone:	530-644-0200
Email:	dmheller@fs.fed.us or swylie@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Prior to use contact CICC to notify LTBMU duty officer

Law Enforcement Jurisdiction:	
Name:	El Dorado County Sheriff
Phone:	530-572-3300
Location:	South Lake Tahoe, CA
Email:	almsg@sdso.org

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

Fire Administration Information:	
Agency:	USFS LTBMU John Washington Div Chief 1
Location:	South Lake Tahoe, CA
Email:	jwashington@fs.fed.us
Phone:	530-545-3373

Known Hazards:	
Structure(s):	Piers and docks, stay off shore 300'
Water:	Turbulent water surface with swells
Recreation:	Recreational watercraft – all types
Other:	Gusty winds and leeside eddies/rotors off escarpment, mountainous terrain, density altitude, rocky shoreline.

Known Invasive Species: Invasive invertebrates that may be present in Fallen Leaf Lake include Asian clams, signal crayfish, mysid shrimp and gill maggots, non-native plants may be present include Eurasian water milfoil and curly leaf pondweed.

Environmental Mitigations Needed Pre/Post Scooping:
Tank decontamination procedures conducted as per AWSA Operations Plan & AFI Aquatic Invasive Species Mitigation Plan.



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	STUMPY MEADOW RESERVOIR – El Dorado County, CA				
Latitude*:	38° 53' 60" N	Longitude*:	120° 35' 46.8168" W	Elevation:	+/- 4291'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	US FOREST SERVICE
Name:	Camino Interagency Command Center (CICC) Mac Heller or Scott Wylie
Phone:	530-644-0200
Email:	dmheller@fs.fed.us or swylie@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Prior to use contact CICC to notify ENF
Duty Officer

NO

Law Enforcement Jurisdiction:	
Name:	EL DORADO COUNTY SHERIFF'S (EDSO)
Phone:	530-621-5655
Location:	Placerville, CA
Email:	almosg@edso.org

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO -X

Administration Information:	
Forest/Bureau/State:	USFS/ENF/CA, Jay Kurth, FFMO
Location:	Placerville, CA
Email:	jkurth01@fs.fed.us
Phone:	530-621-5225

Known Hazards:	
Structure(s):	Boat ramp on northeast side, campgrounds on north and northeast sides of lake
Water:	Unknown
Recreation:	Recreational watercraft-all types
Other:	Gusty winds, mountainous terrain

Known Invasive Species: None per 10/1/16 AIS survey.

Environmental Mitigations Needed Pre/Post Scooping:	
Ensure aircraft has been sanitized for aquatic invasive species prior to deployment or utilization	

STUMPY MEADOW LAKE

Lat / Long 38° 53' 60" N 120° 35' 46.8168" W

- Lake Elevation +/- 4291

NORTH





SCOOPER WATER SOURCE COORDINATION WORKSHEET

NAME:	Folsom Lake				
Latitude*:	N 38° 43'	Longitude*:	W 121° 07'	Elevation:	+/- 400'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Bureau of Reclamation
Name:	Bill Tracy Safety manager or duty officer
Phone	916-402-4678

CONTACT NEEDED PRIOR TO SCOOPING?

YES



NO

Law Enforcement Jurisdiction: Placer, El Dorado, Sacramento Counties	
Name:	Sacramento Sheriff Dam Bureau
Phone:	Dispatch 530-886-5375
Notes:	Notify Dam patrol of firefighting activity

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO



Fire Administration Information:	
Forest/Bureau/State:	Cal Fire - AEU /NEU
Location:	
Email:	
Phone:	530-644-2345 / 530-823-4904

Known Hazards:	
Structure(s):	Dam on south end of reservoir. Power lines S of main lake & along ridge 1000 yards from shoreline.
Water:	Water level above 100% of historical average (March 2016) Link to reservoir levels
Recreation:	High recreational use
Other:	No boat activity due to low water (Sept 2015)


Known Invasive Species: Elodea, Chara, Brittle Naiad


Environmental Mitigations Needed Pre/Post Scooping: Ensure aircraft is clean before use in water body.
Conduct Tank decontamination procedures as per 2016 Amphibious Water Scooper Aircraft Operations Plan

Comments: Can be used for mission currency and training flights per Bill Tracy BoR, (Sept 2015)

Folsom Lake N 38° 43', W 121° 07'



Water pickup lane + 2.5 miles 

Dam – Spillway 

Marina 



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Lake Sonoma – Sonoma County, CA last update: 08/11/2017 by: Patrick Goodrich				
Latitude*:	38° 43' N	Longitude*:	123° 02' W	Elevation:	472'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Corps of Engineers
Name:	Joel Miller
Phone:	707-431-4554
Email:	Joel.d.miller@usace.army.mil

CONTACT NEEDED PRIOR TO SCOOPING?

YES X

NO

Law Enforcement Jurisdiction:	
Name:	Corps of Eng. Park Rangers
Phone:	Dispatched from headquarters 707-431-4501 or visitor center 707-431-4533
Location:	At the lake
	These numbers are primary lake contact prior to scooping.

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO X

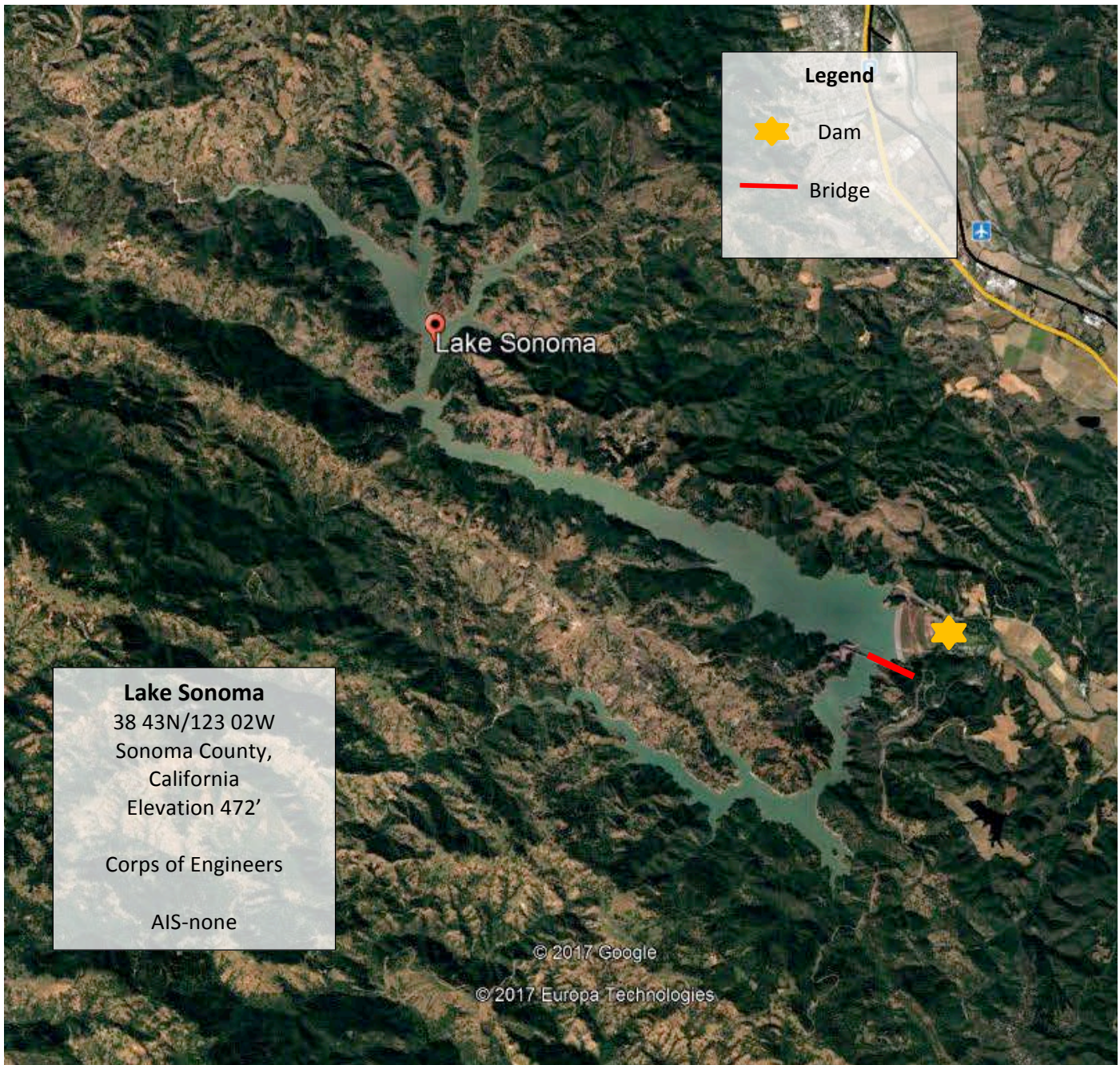
Administration Information:	
Forest/Bureau/State:	Cal Fire Sonoma-Lake-Napa Unit, Shana Jones Unit Chief
Location:	St. Helena
Email:	
Phone:	(707) 967-1400

Known Hazards:	
Structure(s):	Bridge and dam on the southeast end of the lake.
Water:	
Recreation:	Heavy recreation.
Other:	Cloverdale Municipal airport is 4 miles east.

Known Invasive Species:	None per USGS survey Pat Goodrich 8/10/2017
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Environmental Mitigations Needed Pre/Post Scooping:	
Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan	

Comments: Lake is in Navionics database. Consult database for lake depth. Due to stumps the Supervising Ranger recommends only scooping in "water ski areas". See map below and check for updates. Supervising Ranger requests that after we contact park headquarters we should coordinate operations with Cal Fire.	
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SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Topaz Lake, Douglas / Mono Counties				
Latitude*:	38 40 N	Longitude*:	119 32 W	Elevation:	5000'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Walker River Irrigation District
Name:	Burt Brian – Manager, or Jessica Smith
Phone:	775-463-3523
Email:	Jessica@wrid.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Call Walker River Irrigation District

Before, and after to notify amount of water taken.
If after hours or on the weekend, send email notification and water report.

Law Enforcement Jurisdiction:	
Name:	Douglas County Sheriff
Phone:	Dispatch 775-782-5126
Location:	
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?

NO

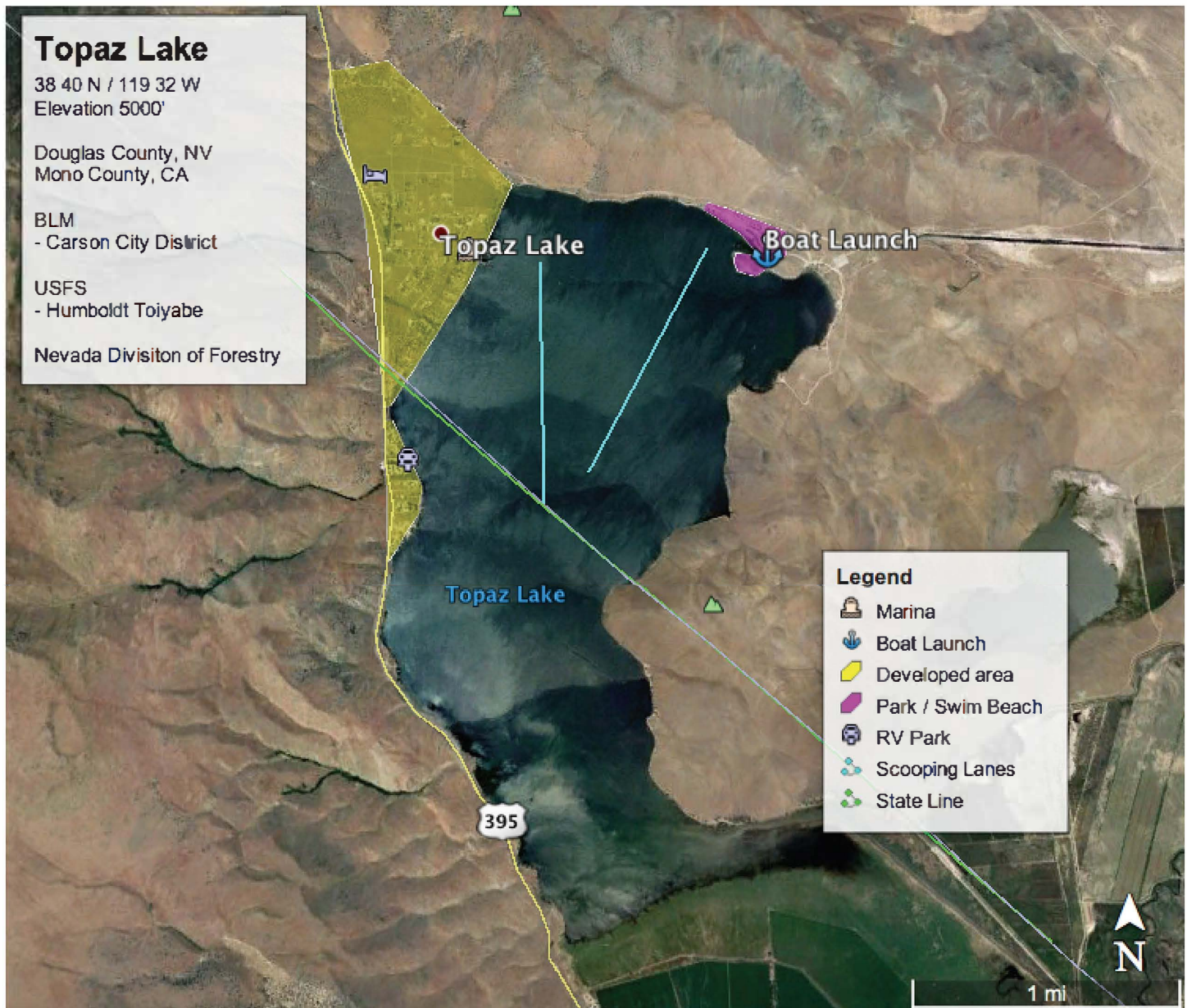
Administration Information:	
Forest/Bureau/State:	State of Nevada, BLM, USFS
	Sierra Front Dispatch
Phone:	775-883-5995

Known Hazards:	
Structure(s):	Dam NE corner
Water:	2.0 miles of scoopable water
Recreation:	Some fishing, water skiing
Other:	2 campgrounds, 1 on NV and 1 on CA side, Boat Launch on NV side and Marina CA side.

Known Invasive Species: None per USGS AIS survey on 24 July 2017

Environmental Mitigations Needed Pre/Post Scooping:
Tank inspection and decontamination per the AWSA operating plan

Comments: CL-415 used July 2017





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Lake Berryessa – Napa County, CA				
Latitude*:	N 38 35	Longitude*:	W 122 14	Elevation:	+/- 440'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	Bureau of Reclamation
Name:	Bill Tracy Safety manager or duty officer
Phone	916-402-4678

CONTACT NEEDED PRIOR TO SCOOPING?

YES



NO

Law Enforcement Jurisdiction:	
Name:	Napa County Sheriff
Phone:	707-253-4451 Dispatch
Notes:	

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO



Administration Information:	
Forest/Bureau/State:	Cal Fire - LNU
Location:	Chief Scott Upton
Email:	
Phone:	707-967-1400

Known Hazards:	
Structure(s):	
Water:	Water clarity fluctuates
Recreation:	High recreational use
Other:	Lake Berryessa Seaplane Base monitor CTAF 122.9

Known Invasive Species: Brazilian elodea, Eurasian watermilfoil, Coontail, Brittle Niaid, NO Quagga or Zebra mussels

Environmental Mitigations Needed Pre/Post Scooping: Ensure aircraft is clean before use in water body.

Conduct Tank decontamination procedures as per 2016 Amphibious Water Scooper Aircraft Operations Plan.

Comments:



SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	BEAR RIVER RESERVOIR – Amador County, CA				
Latitude*:	38° 32' 29.983" N,	Longitude*:	120° 14' 58.764" W	Elevation:	5818'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	US FOREST SERVICE
Name:	Camino Interagency Command Center (CICC) Mac Heller or Scott Wylie
Phone:	530-644-0200
Email:	dmheller@fs.fed.us or swylie@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Prior to use contact CICC to notify ENF
Duty Officer

NO

Law Enforcement Jurisdiction:	
Name:	AMADOR COUNTY SHERIFF'S (EDSO) James Wegner (Under Sheriff)
Phone:	209-223-6515
Location:	Jackson , CA
Email:	jwefner@amadorgov.org

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO -X

Administration Information:	
Forest/Bureau/State:	USFS/ENF/CA, Jay Kurth, FFMO
Location:	Placerville, CA
Email:	jkurth01@fs.fed.us
Phone:	530-621-5225

Known Hazards:	
Structure(s):	Bear River Resort (north and west); damn with small building on damn; Boy Scout camp and campgrounds (south side), Girl Scout camp (north middle) with several buildings
Water:	Boulders near edges of lake, bedrock protrusions throughout lake
Recreation:	Recreational watercraft-all types
Other:	Military Jets commonly go through area, gusty winds, mountainous terrain, density altitude, rocky shoreline stay off shore 300'

Known Invasive Species: not aware of any

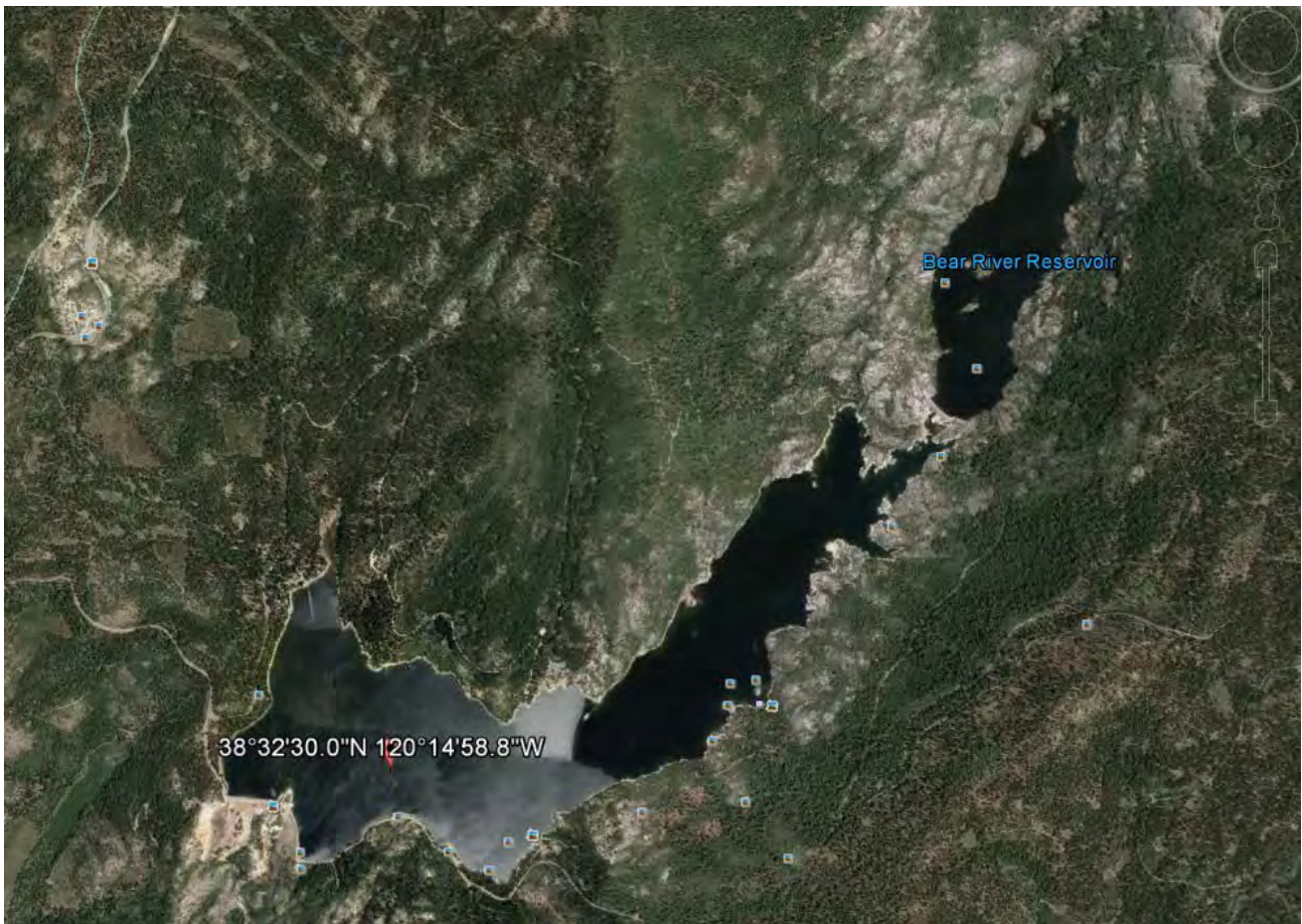
Environmental Mitigations Needed Pre/Post Scooping:
Ensure aircraft has been sanitized for aquatic invasive species prior to deployment or utilization

BEAR RIVER RESERVOIR

Lat / Long 38° 32' 29.983" N. 120° 14' 58.764" W

- Lake Elevation 5818

NORTH





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	SALT SPRINGS RESERVOIR – Amador County, CA				
Latitude*:	38° 29' 46.94" N,	Longitude*:	120° 10' 27.64" W	Elevation:	3961'

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	US FOREST SERVICE
Name:	Camino Interagency Command Center (CICC) Mac Heller or Scott Wylie
Phone:	530-644-0200
Email:	dmheller@fs.fed.us or swylie@fs.fed.us

CONTACT NEEDED PRIOR TO SCOOPING?

YES – Prior to use contact CICC to notify ENF
Duty Officer

NO

Law Enforcement Jurisdiction:	
Name:	AMADOR COUNTY SHERIFF'S (EDSO) James Wegner (Under Sheriff)
Phone:	209-223-6515
Location:	Jackson , CA
Email:	jwefner@amadorgov.org

PERMISSION NEEDED PRIOR TO SCOOPING?

YES

NO -X

Administration Information:	
Forest/Bureau/State:	USFS/ENF/CA, Jay Kurth, FFMO
Location:	Placerville, CA
Email:	jkurth01@fs.fed.us
Phone:	530-621-5225

Known Hazards:	
Structure(s):	Damn on west side (powerhouse west of damn), spillway on southwest side, Springs picnic area on west edge north of damn
Water:	Choppy with upslope winds in afternoon
Recreation:	Recreational watercraft-all types, Salt Springs trailhead at north edge of lake
Other:	Gusty winds, mountainous terrain, density altitude, rocky shoreline stay off shore 300', North edge of lake is wilderness (Forest Supervisor has approved).

Known Invasive Species: None per AIS survey 10/1/16

Environmental Mitigations Needed Pre/Post Scooping:
Ensure aircraft has been sanitized for aquatic invasive species prior to deployment or utilization

SALT SPRINGS RESERVOIR

Lat / Long 38° 29' 46.94" N, 120° 10' 27.64 W

- Lake Elevation 3961

NORTH





SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Applegate Reservoir – Jackson County, Oregon				
Latitude:	42° 01' N	Longitude:	123° 08' W	Elevation:	1950'

Lake Contact information:	
Contact:	USFS – Star Ranger Station
Phone:	541-899-3800
Contact:	US Army Corp of Engineers Applegate Dam
Phone:	541-878-2255

CONTACT NEEDED PRIOR TO SCOOPING?

YES, Sheriff Dispatch & District Ranger who will notify lake concessionaire.

Law Enforcement Jurisdiction:	
Name:	Jackson County Sheriff
Phone:	541-776-7206 - Dispatch
Location:	Jackson County Sheriff Marine Unit
Phone:	541-864-8844

PERMISSION NEEDED PRIOR TO SCOOPING?

Yes

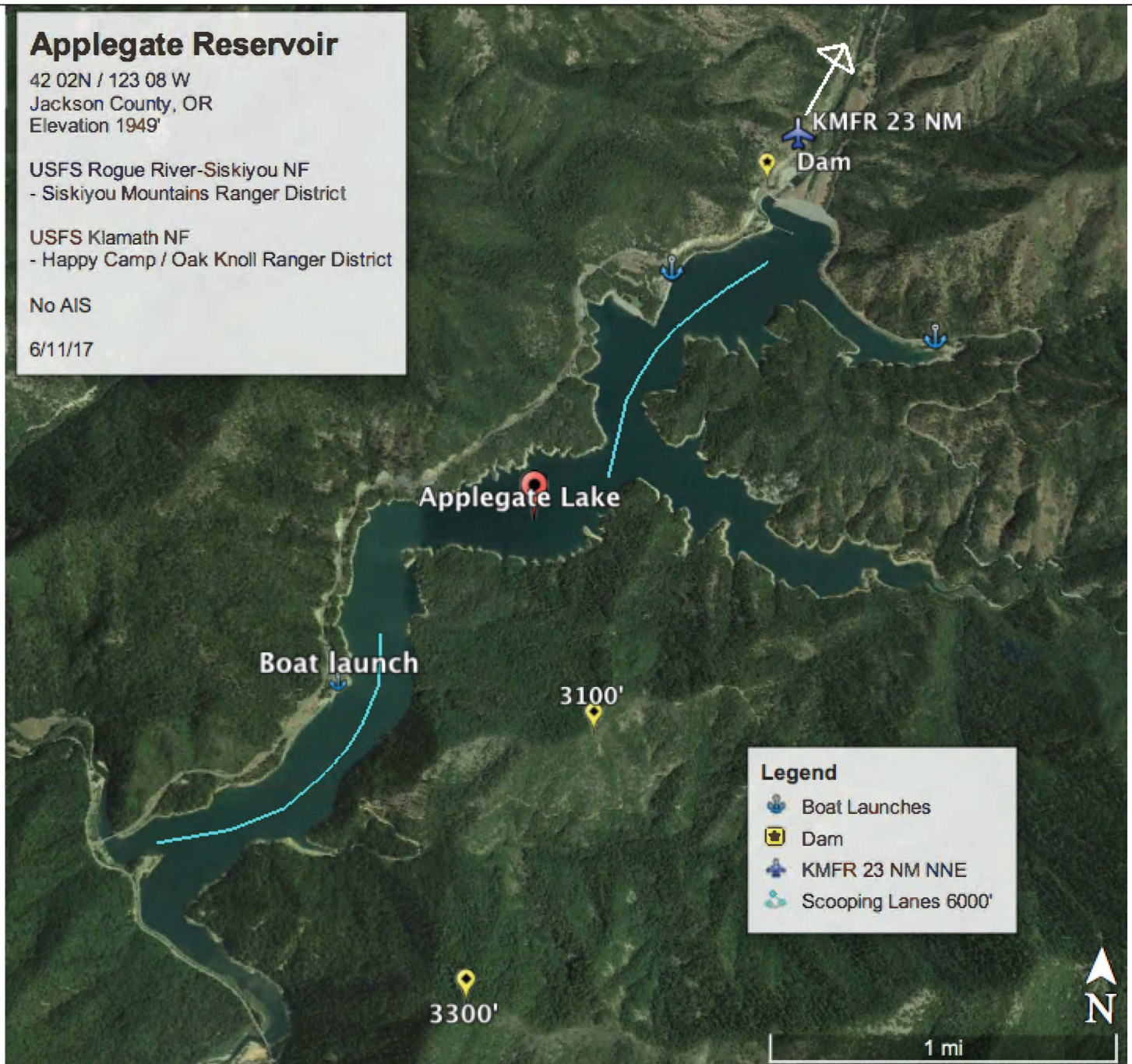
Fire Administration Information:	
Forest/Bureau/State:	USFS Rogue River – Siskiyou NF – Siskiyou Mountains Ranger District
Phone:	541-899-3800 – Donna Mickley District Ranger
Phone:	Amanda Lucas-Rice Unit Aviation Officer 541-255-6365

Known Hazards:	
Structure(s):	Dam North end with intake tower and pier on NW corner
Water:	Water level good per 5/18/17 aerial survey
Recreation:	Lake has a 10 mph speed limit for recreational watercraft
Other:	High terrain East, South, and West. Low exit towards Medford North end.

Known Invasive Species:	None per AIS survey
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Environmental Mitigations Needed Pre/Post Scooping:	
Tank decontamination procedures conducted as per Amphibious Water Scooper Aircraft Operations Plan. Lake may have Port Orford Root Disease and Sudden Oak Death disease present from water runoff.	

Comments:





TOC

SCOOPER WATER BODY COORDINATION WORKSHEET



NAME:	Lake Name – County, State	last update _____ by: _____	
Latitude*:	° ' N	Longitude*: ° ' W	Elevation: _____

*If specific portions of water body are to be used, determine lat/lon for specific area, if not use center of water body

Operational Control:	
Owner:	
Name:	
Phone:	
Email:	

CONTACT NEEDED PRIOR TO SCOOPING?YES ☐NO ☐

Law Enforcement Jurisdiction:	
Name:	
Phone:	
Location:	
Email:	

PERMISSION NEEDED PRIOR TO SCOOPING?YES ☐NO ☐

Administration Information:	
Forest/Bureau/State:	
Location:	
Email:	
Phone:	

Known Hazards:	
Structure(s):	
Water:	
Recreation:	
Other:	

Known Invasive Species:

Environmental Mitigations Needed Pre/Post Scooping:

Comments:

TOC

Sample Google Earth Overlay

